



# STIC Search Report

## Biotech-Chem Library

STIC Database Tracking Number: 117334

**TO: Michael Borin**  
**Location: REM/2A55/2C70**  
**Art Unit: 1631**  
**Monday, March 29, 2004**

**Case Serial Number: 10/035212**

**From: Peggy Ruppel**  
**Location: Biotech-Chem Library**  
**Phone: 571-272-2557**  
**REM E01b65**  
**peggy.ruppel@uspto.gov**

### Search Notes

Dear Examiner Borin:

The results for your search request are attached.

Feel free to contact me if you have any questions.

Thank you for using STIC services.

Peggy Ruppel  
2-2557



# STIC SEARCH RESULT FEEDBACK FORM

## Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher* or *contact*:

Mary Hale, Information Branch Supervisor  
308-4258, CM1-1E01

## Voluntary Results Feedback Form

➤ I am an examiner in Workgroup:  Example: 1610

➤ Relevant prior art found, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature  
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not** found:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC/Biotech-Chem Library CM1 - Ctr. Desk



Result No.	Score	Query		Length	DB	ID	Description
		Match	%				
1	234	14.7	301	4	US-09-495-406-15	Sequence 15, Appl	
2	216	13.6	334	4	US-09-134-000C-5087	Sequence 5087, Ap	
3	214.5	13.5	1056	4	US-09-134-000C-5086	Sequence 5086, Ap	
4	210.5	13.2	348	1	US-08-312-387B-3	Sequence 3, Appl	
5	210.5	13.2	348	1	US-08-312-387B-11	Sequence 11, Appl	
6	210.5	13.2	348	1	US-08-683-426-3	Sequence 3, Appl	
7	210.5	13.2	348	1	US-08-683-426-11	Sequence 11, Appl	
8	210.5	13.2	348	1	US-08-683-458-3	Sequence 3, Appl	
9	210.5	13.2	348	1	US-08-683-458-11	Sequence 11, Appl	
10	210.5	13.2	348	2	US-08-878-360-3	Sequence 3, Appl	
11	210.5	13.2	348	2	US-08-878-360-11	Sequence 11, Appl	
12	210.5	13.2	348	3	US-08-478-140B-3	Sequence 3, Appl	
13	210.5	13.2	348	3	US-08-478-140B-8	Sequence 8, Appl	
14	210.5	13.2	348	4	US-09-333-412-3	Sequence 3, Appl	
15	210.5	13.2	348	4	US-09-333-412-11	Sequence 11, Appl	
16	210.5	13.2	348	4	US-09-338-943-3	Sequence 3, Appl	
17	210.5	13.2	348	4	US-09-338-943-8	Sequence 8, Appl	
18	208	13.1	301	4	US-09-252-901A-33096	Sequence 33096, A	
19	200	12.6	270	4	US-09-489-406-25	Sequence 25, Appl	
20	199	12.5	416	4	US-09-489-039A-8195	Sequence 8195, Ap	
21	190.5	12.0	333	4	US-09-107-532A-5123	Sequence 5123, Ap	
22	187.5	11.8	277	4	US-09-107-532A-7213	Sequence 7213, Ap	
23	186.5	11.7	327	4	US-09-107-532A-6181	Sequence 6181, Ap	
24	184	11.6	303	4	US-09-495-406-17	Sequence 17, Appl	
25	176.5	11.1	337	1	US-08-312-387B-5	Sequence 5, Appl	
26	176.5	11.1	337	1	US-08-312-387B-12	Sequence 12, Appl	
27	176.5	11.1	337	1	US-08-683-426-5	Sequence 5, Appl	

```

RESULT 3
US-09-134-000C-5086
; Sequence 5086, Application US/09134000C
; Patent No. 6617156
; GENERAL INFORMATION:
; APPLICANT: Lynn Doucette-Stamm et al
; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
; INVENTION: ENTEROCOCCUS FAECALIS FOR DIAGNOSTICS AND THERAPEUTICS
; FILE REFERENCE: 032795-032
; CURRENT APPLICATION NUMBER: US/09/134,000C
; CURRENT FILING DATE: 1998-08-13
; PRIOR APPLICATION NUMBER: US 60/055,778
; PRIOR FILING DATE: 1997-08-15
; NUMBER OF SEQ ID NOS: 6812
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 5086
; LENGTH: 1056
; TYPE: PRT
; ORGANISM: Enterococcus faecalis
US-09-134-000C-5086

```

```

/ / APPLICATION NUMBER: US/08/312,387B
/ / FILING DATE: July 7, 1994
/ / CLASSIFICATION: 435
/ / ATTORNEY/AGENT INFORMATION:
/ / NAME: Jackson Esq., David A.
/ / REGISTRATION NUMBER: 26,742
/ / REFERENCE/DOCKET NUMBER: 600-1-095
/ / TELECOMMUNICATION INFORMATION:
/ / TELEPHONE: 201 487-5800
/ / TELEFAX: 201 343-1684
/ / TELEX: 133521
/ / INFORMATION FOR SEQ ID NO: 3:
/ / SEQUENCE CHARACTERISTICS:
/ / LENGTH: 348 amino acids
/ / TYPE: amino acid
/ / TOPOLOGY: linear
/ / MOLECULE TYPE: protein
/ / US-08-312-387B-3

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	Query Match	13.3%	Score 210.5;	DB 1;	Length 348;
	Best local Similarity	27.8%;	Pred. No. 2.3e-11;		
	Matches	86;	Conservative	55; Mismatches 123;	Indels 45; Gaps 15;
QY	4	SIMSVNPELVTRDSVESILNQLTDPETIIIVDNPGRGLDKQLFTYSVDNRKIL	63		
		: : : : : :	:		
		: : : : : :	:		
DB	6	SLVICANNV-KFFAOSLAAVNOTWRNLDLIIDDGSDGTLL-AIAKDFOEKDSRAIKL	63		
		: : : : : :	:		
		: : : : : :	:		



GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 26, 2004, 04:14:20 ; Search time 250 Seconds  
(without alignments)

176.690 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208

Perfect score: 748

Sequence: 1 SYNHLQDVRWRKLFSTFKY.....GQTRKNTSAHFLPMVHVS 140

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPTREMBL 25:  
1: sp\_archaea.\*  
2: sp\_bacteria.\*  
3: sp\_fungi.\*  
4: sp\_human.\*  
5: sp\_invertebrate.\*  
6: sp\_mammal.\*  
7: sp\_mhc.\*  
8: sp\_organelle.\*  
9: sp\_phage.\*  
10: sp\_plant.\*  
11: sp\_rodent.\*  
12: sp\_virus.\*  
13: sp\_vertebrate.\*  
14: sp\_unclassified.\*  
15: sp\_rvirus.\*  
16: sp\_bacteriap.\*  
17: sp\_archaeap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

# SUMMARIES

Result No.	Score	% Match	Length	ID	Description
1	748	100.0	170	4 Q8NF19	Q8NF19 homo sapien
2	748	100.0	208	6 Q95K97	Q95K97 macaca fasc
3	738	98.7	208	4 Q96P59	Q96P59 homo sapien
4	732.5	97.9	213	6 Q9N1B9	Q9N1B9 oviss aries
5	664	88.8	212	13 Q42407	Q42407 gallus gall
6	575.5	76.9	154	6 Q866R6	Q866R6 bos taurus
7	551	73.7	201	13 Q8QG59	Q8QG59 ambystoma m
8	497	66.4	111	13 Q90Y71	Q90Y71 xenopus lae
9	480	64.2	112	13 Q90Y71	Q90Y71 xenopus lae
10	476	63.6	201	13 Q8AY90	Q8AY90 brachydanio
11	474	63.4	134	13 Q90XQ3	Q90XQ3 brachydanio
12	457	61.1	151	13 Q800L8	Q800L8 brachydanio
13	437	58.4	162	11 Q8VI79	Q8VI79 rattus norv
14	395.5	52.9	194	11 Q8G386	Q8G386 mus musculu
15	378.5	50.6	186	6 Q95L47	Q95L47 mustela vis
16	373.5	49.9	185	11 Q9ERN5	Q9ERN5 rattus norv

17	353.5	47.3	245	11 Q8R5L9	Q8R5L9 rattus norv
18	325	43.4	208	6 Q95L12	Q95L12 sus scrofa
19	320	42.8	208	13 Q7Z2N4	Q7Z2N4 gallus gall
20	319	42.6	207	11 Q9ERQ5	Q9ERQ5 mus musculu
21	312	41.7	207	11 Q9ESL8	Q9ESL8 mus musculu
22	309	41.3	129	4 Q60371	Q60371 homo sapien
23	305	40.8	212	11 Q9ESL9	Q9ESL9 mus musculu
24	304	40.6	208	13 Q9PVV1	Q9PVV1 xenopus lae
25	302	40.4	211	11 Q8C7A8	Q8C7A8 mus musculu
26	302	40.4	212	11 Q9EST9	Q9EST9 rattus norv
27	281.5	37.6	97	4 Q9NSJ0	Q9NSJ0 homo sapien
28	265.5	35.5	268	4 Q8NF90	Q8NF90 homo sapien
29	253.5	33.9	191	13 Q9DFC9	Q9DFC9 brachydanio
30	252	33.7	297	5 Q816J4	Q816J4 ciona intes
31	251	33.6	199	13 Q9IAI3	Q9IAI3 gallus gall
32	251	33.6	245	13 Q8W6A2	Q8W6A2 gallus gall
33	250	33.4	236	13 Q804S4	Q804S4 melesgris g
34	249	33.3	192	11 Q8ERW3	Q8ERW3 rattus norv
35	248	33.2	245	11 Q8VCY9	Q8VCY9 mus musculu
36	245.5	32.8	196	13 Q9YH31	Q9YH31 notophthalm
37	244.5	32.7	124	13 Q90XQ5	Q90XQ5 ambystoma m
38	244	32.6	181	13 Q9IAI7	Q9IAI7 gallus gall
39	244	32.6	243	13 Q8W6A1	Q8W6A1 gallus gall
40	242	32.4	127	4 Q955I7	Q955I7 homo sapien
41	241.5	32.3	195	11 Q8C399	Q8C399 mus musculu
42	241	32.2	181	4 Q8TEG5	Q8TEG5 homo sapien
43	241	32.2	181	11 Q924B4	Q924B4 mus musculu
44	240.5	32.2	208	11 Q8R5L5	Q8R5L5 rattus norv
45	238	31.8	73	6 Q97573	Q97573 sus scrofa

## ALIGNMENTS

RESULT 1

Q8NF19 Q8NF19 PRELIMINARY; PRT; 170 AA.

AC Q8NF19; 2002 (TREMELrel. 22, Created)  
DT 01-OCT-2002 (TREMELrel. 22, Last sequence update)  
DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)  
DE Fibroblast growth factor 10 (Fragment).  
GN FGF10.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Theria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP TISSUE=Bladder.  
RC PubMed=1192311;  
RA Begal S., Rubio E., Cheng J.F., Sweet R., Thomas R., Fuchs E.,  
RA Grady R., Mitchell M., Bassuk J.A.;  
RT "Fibroblast Growth Factor-10 Is a Mitogen for Urothelial Cells.";  
RL J. Biol. Chem. 277:23828-23837(2002).  
DR EMBL; AF080882; AAM45926.1;  
DR GO; GO:0008083; Fgf growth factor activity; IEA.  
DR InterPro; IPR008996; Cytok IL1\_like.  
DR InterPro; IPR02348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR ProDom; PD00831; IL1 HBGF.  
DR SMART; SM00442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
FT NON TER 1  
SQ SEQUENCE 170 AA; 19195 MW; 4EA43515F758327A CRC64;

Query Match 100.0%; Score 748; DB 4; Length 170;  
Best Local Similarity 100.0%; Pred. No. 4.1e-61;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVRWRKLFSTFKYFLKIKNGKVGCTKKENCPYSILETTSVEIGVAVKAINS 60  
|||||

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Db 31 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 90
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 120
Db 91 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 150
QY 121 GQTRRKNTSAHFLPMVVS 140
Db 151 GQTRRKNTSAHFLPMVVS 170

RESULT 2
Q95K97 ID Q95K97 PRELIMINARY; PRT; 208 AA.
AC Q95K97;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Hypothetical protein.
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;
OC Cercopitheidae; Macaca.
OX NCBI_TaxID=9541;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Medulla oblongata;
RA Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao K.,
RA Suzuki Y., Sugano S., Hashimoto K.;
RT "Isolation of full-length cDNA clones from macaque brain cDNA
RT libraries";
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AS063051; BAB60779.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1-like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
KW Hypothetical protein.
SQ SEQUENCE 208 AA; 23466 MW; 0766A787609B3661 CRC64;

Query Match 100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.1e-61;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 60
Db 69 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 128
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 188
QY 121 GQTRRKNTSAHFLPMVVS 140
Db 189 GQTRRKNTSAHFLPMVVS 208

RESULT 3
Q96P59 ID Q96P59 PRELIMINARY; PRT; 208 AA.
AC Q96P59;
DT 01-DEC-2001 (TREMBlrel. 19, Created)
DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Keratinocyte growth factor 2.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Endometrium;
RA Chen C., Spencer T.E., Bazer F.W.;
RT "Fibroblast growth factor-10: A stromal mediator of epithelial
RT function in the ovine uterus.";
RL Biol. Reprod. 63:959-966(2000).
DR EMBL; AF213396; AAF25944.1; -.
DR HSSP; P31371; IG82.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1-like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
SQ SEQUENCE 213 AA; 23768 MW; C347149A81C15634 CRC64;

Query Match 97.9%; Score 732.5; DB 6; Length 213;
Best Local Similarity 99.3%; Pred. No. 1.4e-59;
Matches 139; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 60
Db 69 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 128
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 188
QY 121 GQTRRKNTSAHFLPMVVS 140
Db 189 GQTRRKNTSAHFLPMVVS 208

RESULT 4
Q9N1B9 ID Q9N1B9 PRELIMINARY; PRT; 213 AA.
AC Q9N1B9;
DT 01-OCT-2000 (TREMBlrel. 15, Created)
DT 01-OCT-2000 (TREMBlrel. 15, Last sequence update)
DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
DE Fibroblast growth factor 10.
GN FGF-10.
OS Ovis aries (Sheep).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
OC Bovidae; Caprinae; Ovis.
OX NCBI_TaxID=9940;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Endometrium;
RA Chen C., Spencer T.E., Bazer F.W.;
RT "Fibroblast growth factor-10: A stromal mediator of epithelial
RT function in the ovine uterus.";
RL Biol. Reprod. 63:959-966(2000).
DR EMBL; AF213396; AAF25944.1; -.
DR HSSP; P31371; IG82.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1-like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
SQ SEQUENCE 213 AA; 23768 MW; C347149A81C15634 CRC64;

Query Match 97.9%; Score 732.5; DB 6; Length 213;
Best Local Similarity 99.3%; Pred. No. 1.4e-59;
Matches 139; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 60
Db 69 SYNHLQGDVVRWKLFSTFKYFLKIEKNGKVSOTKKENCPSYLSILEITSVGIGVAVKAINS 128
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFVWQHNGROMYVALNGKGAPRR 188
QY 121 GQTRRKNTSAHFLPMVVS 140
Db 189 GQTRRKNTSAHFLPMVVS 208
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RL Submitted (SEP-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AF420232; AAL16059.1; -.
DR GO; GO:0008083; P:growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF_1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF_1.
DR PROSITE; PS00247; HBGF_FGF; 1.
DR NON_TER 186
FT SEQUENCE 186 AA; 21618 MW; A17ACA0409802C68 CRC64;

Query Match          50.6%; Score 378.5; DB 6; Length 186;
Best Local Similarity 53.9%; Pred. No. 4.5e-27;
Matches 69; Conservative 28; Mismatches 30; Indels 1; Gaps 1;

QY      1 SYNHQLQ-GDVWRKLPSTFYFKLKIEKGKVGSTKEKNCPIYSILITSVETGVAVKAIN 59
Db       |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
        55 SYDYNEGGDIIVRRLRFCTRWYLRIDRKRGKVGTOMKNYSINMEIRIVAGVIAIKGVE 114

QY      60 SNYILAMNKKGLYGSKFEFNNDCKLKERTEENGNYNTYASFNQHNQGROMYVALNGKAPR 119
Db       |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
        115 SBYILAMNKEGKLAKYEKCNECDNCFRELILENHNTYASAKWTHSGGMFVALAQKGVPV 174

QY      120 RGQKTRRK 127
Db       |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||::: |||:::
        175 RGGKTKE 182

Search completed: March 26, 2004, 04:48:44
Job time : 255 secs

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Search completed: March 26, 2004, 04:48:44  
Job time : 255 secs

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QY      122 QKTRKNTSAHFLPMVYHS 140
      :||| | |||:| |
Db      144 RRTRRHQLSTHFLPVLVSS 162

RESULT 14
Q8C386 PRELIMINARY; PRT; 194 AA.
AC Q8C386;
DT 01-MAR-2003 (TREMBLrel. 23, Created)
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE Fibroblast growth factor 7.
CS Mus musculus (Mouse).
CC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
CC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
CC NCBI_TaxId=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Head;
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RA "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573(2002).
DR EMBL; AK086639; BAC39707.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok Il1-like.
DR InterPro; IPR002348; IL1_HEGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HEGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HEGF_FGF; 1.
DR SEQUENCE 194 AA; 22257 MW; F63F44F3FA96D4D CRC64;

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[illegible]

RESULT 15					
295L47					
IID	Q95L47	PRELIMINARY;	PRT;	196 AA.	
AC	Q95L47;				
DT	01-DEC-2001 (TEMBLrel. 19, Created)				
DT	01-DEC-2001 (TEMBLrel. 19, Last sequence update)				
DT	01-OCT-2003 (TEMBLrel. 25, Last annotation update)				
DE	Keratinocyte growth factor FGF-7 (Fragment).				
CE	Mustela vison (American mink).				
CC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;				
CC	Mammalia; Eutheria; Carnivora; Fissipedia; Mustelidae; Mustelinae;				
CC	Mustela.				
CC	NCB1_taxID=9667;				
CK	[1]				
RN	SEQUENCE FROM N.A.				
RP	Billingsley J.T., Rose W.;				
RT	"Keratinocyte growth factor expression in mink (Mustela vison) skin				
RT	during natural and artificially induced winter fur growth.";				

```
Db 123 NYLAINKGVVYGADGIDCKLIEREENRYNTYASAEWMNKKHMFVGLSANGRPMPR 182
QY 121 COKTRKNTSAHFIPMVV 138
Db 183 AKKTRKNTATHFLPIPI 200

RESULT 11
Q90XQ3 PRELIMINARY; PRT; 134 AA.
AC Q90XQ3;
DT 01-DEC-2001 (TRENBLrel. 19, Created)
DT 01-DEC-2001 (TRENBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Fibroblast growth factor 10 (Fragment).
OS Ambystoma mexicanum (Chordata).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomidae;
OC Ambystoma.
OX NCBI_TaxID=8296;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21439472; PubMed=1155861;
RA Christensen R.N., Weinstein M., Tassava R.A.;
RT "Fibroblast growth factors in regenerating limbs of Ambystoma: Cloning
RT and semi-quantitative RT-PCR expression studies.";
RL J. Exp. Zool. 290:529-540(2001).
DR EMBL; AF360986; RAL16959.1; -.
GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PRO262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
FT NON TER 134
FT NON TER 134
SQ SEQUENCE 134 AA; 15317 MW; 678E26419972CB4E CRC64;

Query Match 63.4%; Score 474; DB 13; Length 134;
Best Local Similarity 68.6%; Pred. No. 5.1e-36;
Matches 83; Conservative 20; Mismatches 18; Indels 0; Gaps 0;

QY 1 SYNHLQGVVRWVKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 60
Db 14 SYKHLGVDVRLRLLCVTNYFLKIDAKGVSGTTKVDCCPYSMWELTSDVGIIVAKGVYS 73

QY 61 NYLAINKKGKLYGSKFNNCKLKERIEENGYNTYASFNWHNGROMYVALNGKGPARR 120
Db 74 NYLAINKGRVYSGREFTTCKLKERMEENKYNITYASYKWRHQRMQFVALNGKGTPKR 133

QY 121 G 121
Db 134 G 134

RESULT 12
Q800L8 PRELIMINARY; PRT; 191 AA.
AC Q800L8;
DT 01-JUN-2003 (TRENBLrel. 24, Created)
DT 01-JUN-2003 (TRENBLrel. 24, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Growth factor FGF-10 (Fragment).
GN FGF-10.
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
OX NCBI_TaxID=7955;
RN [1]
RP SEQUENCE FROM N.A.

Db 123 NYLAINKGVVYGADGIDCKLIEREENRYNTYASAEWMNKKHMFVGLSANGRPMPR 182
QY 121 COKTRKNTSAHFIPMVV 138
Db 183 AKKTRKNTATHFLPIPI 200

Query Match 61.1%; Score 457; DB 13; Length 191;
Best Local Similarity 62.9%; Pred. No. 2.8e-34;
Matches 83; Conservative 22; Mismatches 27; Indels 0; Gaps 0;

QY 1 SYNHLQGVVRWVKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 60
Db 60 SYNHLTGDVRRKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 119

QY 61 NYLAINKKGKLYGSKFNNCKLKERIEENGYNTYASFNWHNGROMYVALNGKGPARR 120
Db 120 NYLAINKGVVYGADGIDCKLIEREENRYNTYASAEWMNKKHMFVGLSANGRPMPR 179

QY 121 COKTRKNTSAH 132
Db 180 AKKTRKNTATH 191

RESULT 13
Q8VI79 PRELIMINARY; PRT; 162 AA.
AC Q8VI79;
DT 01-MAR-2002 (TRENBLrel. 20, Created)
DT 01-MAR-2002 (TRENBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Fibroblast growth factor 22.
GN FGF22.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RA Itoh N.;
RT "Rattus norvegicus FGF21.";
RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB078902; BAB94300.1; -.
GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PRO262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
SQ SEQUENCE 162 AA; 18361 MW; 3100F25D105F5ED3 CRC64;

Query Match 58.4%; Score 437; DB 11; Length 162;
Best Local Similarity 54.0%; Pred. No. 1.6e-33;
Matches 75; Conservative 34; Mismatches 30; Indels 0; Gaps 0;

QY 2 YNHLQGVVRWVKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 61
Db 24 PHLGEGDVRRRLFSSTHFFLRVDPGGVQTRWHGQSDSIVEIRSVRGTVVIVKAVYSG 83

QY 62 YLAINKKGKLYGSKFNNCKLKERIEENGYNTYASFNWHNGROMYVALNGKGPARR 121
Db 84 FYVAMNREGRLYGRVYSVDCRFRIEENGYNTYASRRWRHHRGPRMFLALDSQGIPOQG 143
```

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RA Kudo A., Imai Y., Okamoto H., Nagaya M., Emoto Y.;
RT "The zebrafish tbx5 gene is essential for the pectoral fin and heart
RT development.";
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB091000; BAC57976.1; -.
GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PRO262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
FT NON TER 191
FT NON TER 191
SQ SEQUENCE 191 AA; 21638 MW; E15BF628E903BC2C CRC64;

Query Match 61.1%; Score 457; DB 13; Length 191;
Best Local Similarity 62.9%; Pred. No. 2.8e-34;
Matches 83; Conservative 22; Mismatches 27; Indels 0; Gaps 0;

QY 1 SYNHLQGVVRWVKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 60
Db 60 SYNHLTGDVRRKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 119

QY 61 NYLAINKKGKLYGSKFNNCKLKERIEENGYNTYASFNWHNGROMYVALNGKGPARR 120
Db 120 NYLAINKGVVYGADGIDCKLIEREENRYNTYASAEWMNKKHMFVGLSANGRPMPR 179

QY 121 COKTRKNTSAH 132
Db 180 AKKTRKNTATH 191

RESULT 13
Q8VI79 PRELIMINARY; PRT; 162 AA.
AC Q8VI79;
DT 01-MAR-2002 (TRENBLrel. 20, Created)
DT 01-MAR-2002 (TRENBLrel. 20, Last sequence update)
DT 01-OCT-2003 (TRENBLrel. 25, Last annotation update)
DE Fibroblast growth factor 22.
GN FGF22.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A.
RA Itoh N.;
RT "Rattus norvegicus FGF21.";
RL Submitted (JAN-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AB078902; BAB94300.1; -.
GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PRO262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
SQ SEQUENCE 162 AA; 18361 MW; 3100F25D105F5ED3 CRC64;

Query Match 58.4%; Score 437; DB 11; Length 162;
Best Local Similarity 54.0%; Pred. No. 1.6e-33;
Matches 75; Conservative 34; Mismatches 30; Indels 0; Gaps 0;

QY 2 YNHLQGVVRWVKLFSTFKYFLKIEKNGKVGSTKCKENCYPYSILSITSVEIGVAVKAINS 61
Db 24 PHLGEGDVRRRLFSSTHFFLRVDPGGVQTRWHGQSDSIVEIRSVRGTVVIVKAVYSG 83

QY 62 YLAINKKGKLYGSKFNNCKLKERIEENGYNTYASFNWHNGROMYVALNGKGPARR 121
Db 84 FYVAMNREGRLYGRVYSVDCRFRIEENGYNTYASRRWRHHRGPRMFLALDSQGIPOQG 143
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10 75 SYNHLQDVVRWKLFSFTKYFLKIE-NGKVGSTKKENCPSYLEITSVEIGVAVKAINS 133
11 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYVALNGKGAPRR 120
12 134 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYVALNGKGAPRR 193
13 121 GQXTRKNTSAHFLPMVHVS 140
14 194 GQXTRKNTSAHFLPMVHVS 213
15
16 RESULT 5
17 M42407 PRELIMINARY; PRT; 212 AA.
18
19 C O42407;
20 C O42407;
21 T 01-JAN-1998 (TREMBlrel. 05, Created)
22 T 01-JUN-1998 (TREMBlrel. 06, Last sequence update)
23 T 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
24 DE Fibroblast growth factor 10.
25 DE Gallus gallus (Chicken).
26 C Gallus gallus (Chicken).
27 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
28 C Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
29 C Gallus.
30 X NCBI_TaxID=9031;
31
32 IN [1]
33 IN SEQUENCE FROM N.A.
34 C MEDLINE=97330690; PubMed=9187149;
35 C Ouchi H., Nakagawa T., Yamamoto A., Araga A., Ohta T., Ishimaru Y.,
36 C Yoshioka H., Kuwana T., Nohno T., Yamasaki M., Itoh N., Noji S.;
37 C "The mesenchymal factor, FGF10, initiates and maintains the outgrowth
38 C of the chick limb bud through interaction with FGF8, an apical
39 C ectodermal factor.";
40 C Development 124:2235-2244 (1997).
41 C EMBL; D86333; BAA24945.1; -.
42 C HSP; P31371; I682.
43 C GO; GO:0008083; F: growth factor activity; IEA.
44 C InterPro; IPR008996; Cytok IL1_like.
45 C InterPro; IPR002348; IL1_HBGF.
46 C Pfam; PF00167; FGF; 1.
47 C PRINTS; PR00262; IL1HBGF.
48 C ProDom; PD000831; IL1_HBGF; 1.
49 C SMART; SM00442; FGF; 1.
50 C SEQUENCE 212 AA; 23631 MW; AB4C0B32C72A0D90 CRC64;
51
52 Query Match 88.8%; Score 664; DB 13; Length 212;
53 Best Local Similarity 88.8%; Pred. No. 2.8e-53;
54 Matches 124; Conservative 10; Mismatches 6; Indels 0; Gaps 0;
55
56 2y 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLEITSVEIGVAVKAINS 60
57 73 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLEITSVEIGVAVKAINS 132
58
59 2y 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYVALNGKGAPRR 120
60 133 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYVALNGKGAPRR 192
61
62 2y 121 GQXTRKNTSAHFLPMVHVS 140
63 193 GQXTRKNTSAHFLPMVHVS 212
64
65 RESULT 6
66 D866R6 PRELIMINARY; PRT; 154 AA.
67
68 C O866R6;
69 C O866R6;
70 T 01-JUN-2003 (TREMBlrel. 24, Created)
71 T 01-JUN-2003 (TREMBlrel. 24, Last sequence update)
72 T 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
73 DE Fibroblast growth factor-10 (Fragment).
74 C FGF10.
75 C Bos taurus (Bovine).
76 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
77 C Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
78
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OC Bovidae; Bovinae; Bos.
OX NCBI_TaxID=9913;
RN [1]
RP SEQUENCE FROM N.A.
RA Glapinski V.F., Pinto M.G.L., Teixeira A.B., Avellar M.C.W.,
RA Price C.A., Buratini J.;
RL Submitted (NOV-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY183659; AAC25617.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; Cytok IL1_like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
FT NON_TER 1
FT NON_TER 154
SQ SEQUENCE 154 AA; 17274 MW; 843E0A2FB610E12E CRC64;
59
60 Query Match 76.9%; Score 575.5; DB 6; Length 154;
61 Best Local Similarity 99.1%; Pred. No. 2.7e-45;
62 Matches 109; Conservative 0; Mismatches 0; Indels 1; Gaps 1;
63
64 Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLEITSVEIGVAVKAINS 60
65 Db 46 SYNHLQDVVRWKLFSFTKYFLKIE-NGKVGSTKKENCPSYLEITSVEIGVAVKAINS 104
66
67 Qy 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYV 110
68 Db 105 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYV 154
69
70 RESULT 7
71 Q8QGS9 PRELIMINARY; PRT; 201 AA.
72
73 ID Q8QGS9;
74 AC Q8QGS9;
75 DT 01-JUN-2002 (TREMBlrel. 21, Created)
76 DT 01-JUN-2002 (TREMBlrel. 21, Last sequence update)
77 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
78 DE Fibroblast growth factor 10.
79 CS Ambystoma mexicanum (Axolotl).
80 C Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
81 C Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomidae;
82 C Ambystoma.
83 OX NCBI_TaxID=8296;
84
85 RN [1]
86 RP SEQUENCE FROM N.A.
87 RX MEDLINE=21826199; PubMed=11836784;
88 RA Christensen R.N., Weinstein M., Tassava R.A.;
89 RT "Expression of fibroblast growth factors 4, 8, and 10 in limbs,
90 RT flanks, and blastemas of Ambystoma.";
91 RL Dev. Dyn. 223:193-203 (2002).
92 DR EMBL; AF034453; AAKS9700.1; -.
93 DR GO; GO:0008083; F: growth factor activity; IEA.
94 DR InterPro; IPR008996; Cytok IL1_like.
95 DR InterPro; IPR002348; IL1_HBGF.
96 DR Pfam; PF00167; FGF; 1.
97 DR PRINTS; PR00262; IL1HBGF.
98 DR ProDom; PD000831; IL1_HBGF; 1.
99 DR SMART; SM00442; FGF; 1.
100 SQ SEQUENCE 201 AA; 22994 MW; 89EA1B61806A6F57 CRC64;
101
102 Query Match 73.7%; Score 551; DB 13; Length 201;
103 Best Local Similarity 70.3%; Pred. No. 6.5e-43;
104 Matches 97; Conservative 22; Mismatches 19; Indels 0; Gaps 0;
105
106 Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLEITSVEIGVAVKAINS 60
107 Db 58 SYKLEGDVRLRLLCVTVTFKIDAGKVSQTTKDCPSYWEITSVDGIVKGYVS 117
108
109 Qy 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNFYASFNQHNQRMQYVALNGKGAPRR 120
110
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db 118 NYLANNEKRGVYSGREFTTDCKLKMEENKYNITYASYKWHKQRMFVALNGKGTGPKR 177
2y 121 GQTRKNTSAHFLPMV 138
db 178 GQTRKNTSAHFLPMQI 195

RESULT 8
ID Q90Y71 PRELIMINARY; PRT; 111 AA.
AC Q90Y71;
DT 01-DEC-2001 (TREMELrel. 19, Created)
DT 01-DEC-2001 (TREMELrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)
DE Fibroblast growth factor-10 (Fragment).
EN FGF-10.
DS Xenopus laevis (African clawed frog).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;
OC Xenopodinae; Xenopus.
CX NCBI_TaxID=8355;
CX [1]
SEQUENCE FROM N.A.
YK Yokoyama H., Yonei-Tamura S.;
YL Submitted (OCT-2001) to the EMBL/GenBank/DBJ databases.
[2]
SEQUENCE FROM N.A.
MEDLINE=20143688; PubMed=10677252;
YK Yokoyama H., Yonei-Tamura S., Endo T., Izpisua Belmonte J., Tamura K.,
IA Ige H.;
XA "Mesenchyme with fgf-10 expression is responsible for regenerative
capacity in xenopus limb buds.";
XL Dev. Biol. 219:18-29(2000).
DR EMBL; AB073747; BAB71729.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; CytoK IL1 like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
FT NON_TER 1
FT NON_TER 111
SQ SEQUENCE 111 AA; 12827 MW; 79656CA53BDD60D1 CRC64;

Query Match 66.4%; Score 497; DB 13; Length 111;
Best Local Similarity 82.9%; Pred. No. 3.2e-38;
Matches 92; Conservative 12; Mismatches 7; Indels 0; Gaps 0;

QY 2 YNHQGVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPSYLSILTSVEIGVAVAKAINEN 61
DB 1 YNHQGVRSRLFSYTKYFLQIDGNTVSGTKKENCPSYLSILTSVDVGAVAKAINEN 60
QY 62 YLANNKKGLYSGKEFNNDCKLKERIEENGYNTYASFNVQHNGROMYVAL 112
DB 61 YLANNRGKIVGSKVFNIDCKLKERIEENGYNTYASHNWKNEROMFVAL 111

RESULT 9
Q90XP9
ID Q90XP9 PRELIMINARY; PRT; 112 AA.
AC Q90XP9;
DT 01-DEC-2001 (TREMELrel. 19, Created)
DT 01-DEC-2001 (TREMELrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)
DE Fibroblast growth factor 10 (Fragment).
OS Ambystoma maculatum (Spotted salamander).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Amphibia; Batrachia; Caudata; Salamandroidea; Ambystomatidae;
OC Ambystoma.
CX NCBI_TaxID=43114;
CX [1]
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RP SEQUENCE FROM N.A.
RX MEDLINE=21439472; PubMed=11555861;
RA Christensen R.N., Weinstein M., Tassaava R.A.;
RT "Fibroblast growth factors in regenerating limbs of Ambystoma: Cloning
and semi-quantitative RT-PCR expression studies.";
RL J. Exp. Zool. 290:529-540(2001).
DR EMBL; AF360990; AAL16963.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; CytoK IL1 like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
FT NON_TER 1
FT NON_TER 112
SQ SEQUENCE 112 AA; 12886 MW; F5D8EC6B13C479C9 CRC64;

Query Match 64.2%; Score 480; DB 13; Length 112;
Best Local Similarity 75.0%; Pred. No. 1.2e-36;
Matches 84; Conservative 17; Mismatches 11; Indels 0; Gaps 0;

QY 25 EKNGKVGSGTKKENCPSYLSILTSVEIGVAVAKAINSNYYLANNKKGLYSGKEFNNDCKL 84
DB 1 EKNGKVGSGTKKVDCEPSYVMEITSDVG:VAVKGVSNYYLANNEKRGVYSGREFTDCKL 60
QY 85 KERIEENGYNTYASFNVQHNGROMYVALNGKAPRGOKTRKNTSAHFLPM 136
DB 61 KERMEENKYNITYASYKWHKQRMFVALNGKGTGPKRQNTKNTSAHFLPM 112

RESULT 10
Q8AY90
ID Q8AY90 PRELIMINARY; PRT; 201 AA.
AC Q8AY90;
DT 01-MAR-2003 (TREMELrel. 23, Created)
DT 01-MAR-2003 (TREMELrel. 23, Last sequence update)
DT 01-OCT-2003 (TREMELrel. 25, Last annotation update)
DE Fibroblast growth factor 10.
DN FGF10.
OS Brachydanio rerio (Zebrafish) (Danio rerio).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes;
OC Cyprinidae; Danio.
CX NCBI_TaxID=7955;
CX [1]
SEQUENCE FROM N.A.
RX PubMed=1239308;
RA Ng J.X., Kawakami Y., Buscher D., Raya A., Itoh T., Koth C.M.,
RA Rodriguez Esteban J., Rodriguez-Leon J., Garrity D.M., Fishman M.C.,
RA Izpisua Belmonte J.C.;
RT "The limb identity gene Tbx5 promotes limb initiation by interacting
with Wnt2b and Fgf10.";
RL Development 129:5161-5170(2002).
DR EMBL; AF544025; AAN62915.1; -.
DR GO; GO:0008083; F: growth factor activity; IEA.
DR InterPro; IPR008996; CytoK IL1 like.
DR InterPro; IPR002348; IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR PRODOM; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
SQ SEQUENCE 201 AA; 22780 MW; 7365E61A9BE99379 CRC64;

Query Match 63.6%; Score 476; DB 13; Length 201;
Best Local Similarity 62.3%; Pred. No. 5.2e-36;
Matches 86; Conservative 24; Mismatches 28; Indels 0; Gaps 0;

QY 1 SYNHQGVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPSYLSILTSVEIGVAVAKAINEN 60
DB 63 SYNHLTDGVRRKLFYSQKFFLIDKNGKNGTGSKDDPYSTLSEIKSVGVGVAIKGQS 122
QY 61 NYLANNKKGLYSGKEFNNDCKLKERIEENGYNTYASFNVQHNGROMYVALNGKAPRR 120
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M protein - protein search, using sw model

run on: March 26, 2004; 04:14:20 ; Search time 250 Seconds  
(without alignments)  
176.690 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208  
Perfect score: 748  
Sequence: 1 SYNHLQGVWRKLFSTKY.....GQTKRRKNTSAHFLPMVHVS 140

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues

Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SPTREMBL.25.\*

- 1: sp\_archaea.\*
- 2: sp\_bacteria.\*
- 3: sp\_fungi.\*
- 4: sp\_human.\*
- 5: sp\_invertebrate.\*
- 6: sp\_mammal.\*
- 7: sp\_mhc.\*
- 8: sp\_organelle.\*
- 9: sp\_phage.\*
- 10: sp\_plant.\*
- 11: sp\_rodent.\*
- 12: sp\_virus.\*
- 13: sp\_vertebrate.\*
- 14: sp\_unclassified.\*
- 15: sp\_virus.\*
- 16: sp\_bacteriaph.\*
- 17: sp\_archaeap.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

result No.	Score	Query Match	Length	ID	Description
1	748	100.0	170	4	Q8nfi9 homo sapien
2	748	100.0	208	6	Q95k97 macaca fasc
3	738	98.7	208	4	Q96p59 homo sapien
4	732.5	97.9	213	6	Q9nib9 oviss aries
5	664	88.8	212	13	O42407 gallus gall
6	575.5	76.9	154	6	Q866r6 bos taurus
7	551	73.7	201	13	Q8GQ59 ambystoma m
8	497	66.4	111	13	Q90y71 xenopus lae
9	480	64.2	112	13	Q90xrp ambystoma m
10	476	63.6	201	13	Q8AY90 brachydanio
11	474	63.4	134	13	Q90xq3 ambystoma m
12	457	61.1	191	13	Q800L8 brachydanio
13	437	58.4	162	11	Q8vi79 rattus norv
14	395.5	52.9	194	11	Q8G386 mus musculu
15	378.5	50.6	186	6	Q95147 mustela vis
16	373.5	49.9	185	11	Q9ern5 rattus norv

17	353.5	47.3	245	11	Q8REL9
18	325	43.4	208	6	Q95L12
19	320	42.8	208	13	Q7ZZN4
20	319	42.6	207	11	Q9ERQ5
21	312	41.7	207	11	Q9ESL8
22	309	41.3	129	4	O80371
23	305	40.8	212	11	Q9ESL9
24	304	40.6	208	13	Q9PVY1
25	302	40.4	211	11	Q8C7A8
26	302	40.4	212	11	Q9EST9
27	281.5	37.6	97	4	Q9NSJ0
28	265.5	35.5	268	4	Q8NF90
29	253.5	33.9	191	13	Q9DFC9
30	252	33.7	297	5	Q816v4
31	251	33.6	199	13	Q91A13
32	251	33.6	245	13	Q9WCA2
33	250	33.4	236	13	Q804S4
34	249	33.3	192	11	Q9ERW3
35	248	33.2	245	11	Q8VCY9
36	245.5	32.8	196	13	Q9YH31
37	244.5	32.7	124	13	Q90XQ5
38	244	32.6	181	13	Q91A17
39	244	32.6	243	13	Q9WCA1
40	242	32.4	127	4	Q99517
41	241.5	32.3	195	11	Q8C399
42	241	32.2	181	4	Q8TBG5
43	241	32.2	181	11	Q924B4
44	240.5	32.2	208	11	Q8RSL5
45	238	31.8	73	6	O97573

ALIGNMENTS

RESULT 1

Q8NFI9 PRELIMINARY; PRT; 170 AA.  
AC Q8NFI9; 01-OCT-2002 (TrEMBLrel. 22, Created)  
DT 01-OCT-2002 (TrEMBLrel. 22, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Fibroblast growth factor 10 (Fragment).  
GN FGF10.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Bladder;  
RX PubMed=11923311;  
RA Bagai S., Rubio E., Cheng J.F., Sweet R., Thomas R., Fuchs E.,  
RA Grady R., Mitchell M., Bassuk J.A.;  
RT "Fibroblast Growth Factor-10 Is a Mitogen for Urothelial Cells.";  
RL J. Biol. Chem. 277:23828-23837(2002).  
DR EMBL; AF508782; RAM46926.1; -;  
DR GO; GO:0008083; F: growth factor activity; IEA.  
DR InterPro; IPR008996; Cytok IL1-like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR PRODOM; PD000831; IL1\_HBGF.  
DR SMART; SM00442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
DR NON TER 1  
SQ SEQUENCE 170 AA; 19195 MW; 4EA43515F758327A CRC64;

Query Match 100.0%; Score 748; DB 4; Length 170;

Best Local Similarity 100.0%; Pred. No. 4.1e-61; Indels 0; Gaps 0;  
Matches 140; Conservative 0; Mismatches 0;

QY 1 SYNHLQGVWRKLFSTKYFLKIKNGKVGSTKKNCPYSILEITSVIGVAVKAINS 60  
|||||

Db 31 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 90  
QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
Db 91 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 150  
QY 121 GQTRRKNTSAHFLPMVHVS 140  
Db 151 GQTRRKNTSAHFLPMVHVS 170

RESULT 2  
Q95K97 PRELIMINARY; PRT; 208 AA.  
AC Q95K97; 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Hypothetical protein.  
OS Macaca fascicularis (Crab eating macaque) (Cynomolgus monkey).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheidae;  
OC Cercopitheidae; Macaca.  
OX NCBI\_TaxID=9541;  
RN [1]  
RP TISSUE=Medulla oblongata;  
RC Osada N., Hida M., Kusuda J., Tanuma R., Iseki K., Hirai M., Terao K.,  
RA Suzuki Y., Sugano S., Hashimoto K.;  
RT "Isolation of full-length cDNA clones from macaque brain cDNA  
libraries";  
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AB063051; BAB60779.1; -;  
DR GO; GO:0008083; F:growth factor activity; IEA.  
DR InterPro; IPR008996; Cytok IL1\_like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR ProDom; PD000831; IL1\_HBGF; 1.  
DR SMART; SM00442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
KW Hypothetical protein.  
KW Hypothetical protein.  
SQ SEQUENCE 208 AA; 23466 MW; 0766A787609B3661 CRC64;

Query Match 100.0%; Score 748; DB 6; Length 208;  
Best Local Similarity 100.0%; Pred. No. 5.1e-61;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 60  
Db 69 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 128

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188

QY 121 GQTRRKNTSAHFLPMVHVS 140  
Db 189 GQTRRKNTSAHFLPMVHVS 208

RESULT 3  
Q96P59 PRELIMINARY; PRT; 208 AA.  
AC Q96P59; 01-DEC-2001 (TrEMBLrel. 19, Created)  
DT 01-DEC-2001 (TrEMBLrel. 19, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Keratinocyte growth factor 2.  
GN FGF10.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RA Zhang Y., Zhang B., Zhou Y., Peng X., Yuan J., Qiang B.;  
RL Submitted (AUG-2001) to the EMBL/GenBank/DBJ databases.  
DR EMBL; AF41527; AAL05875.1; -;  
DR GO; GO:0008083; F:growth factor activity; IEA.  
DR InterPro; IPR008996; Cytok IL1\_like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR ProDom; PD000831; IL1\_HBGF; 1.  
DR SMART; SM00442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
SQ SEQUENCE 208 AA; 23433 MW; D6C77E96D4885C10 CRC64;

Query Match 98.7%; Score 738; DB 4; Length 208;  
Best Local Similarity 98.6%; Pred. No. 4.2e-60;  
Matches 138; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 60  
Db 69 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 128

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188

QY 121 GQTRRKNTSAHFLPMVHVS 140  
Db 189 GQTRRKNTSAHFLPMVHVS 208

RESULT 4  
Q9N1B9 PRELIMINARY; PRT; 213 AA.  
AC Q9N1B9;  
DT 01-OCT-2000 (TrEMBLrel. 15, Created)  
DT 01-OCT-2000 (TrEMBLrel. 15, Last sequence update)  
DT 01-OCT-2003 (TrEMBLrel. 25, Last annotation update)  
DE Fibroblast growth factor 10.  
GN FGF-10.  
OS Ovis aries (sheep).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;  
OC Bovidae; Caprinae; Ovis.  
OX NCBI\_TaxID=9940;  
RN [1]  
RP SEQUENCE FROM N.A.  
RC TISSUE=Endometrium;  
RX MEDLINE=20411101; PubMed=10952944;  
RA Chen C., Spencer T.E., Bazer F.W.;  
RT "Fibroblast growth factor-10: A stromal mediator of epithelial  
RT function in the ovine uterus";  
RL Biol. Reprod. 63:959-966(2000).  
DR EMBL; AF213396; AAF25944.1; -;  
DR HSSP; P31371; 1G82.  
DR GO; GO:0008083; F:growth factor activity; IEA.  
DR InterPro; IPR008996; Cytok IL1\_like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR ProDom; PD000831; IL1\_HBGF; 1.  
DR SMART; SM00442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
SQ SEQUENCE 213 AA; 23768 MW; C347149A81C15634 CRC64;

Query Match 97.9%; Score 732.5; DB 6; Length 213;  
Best Local Similarity 99.3%; Pred. No. 1.4e-59;  
Matches 139; Conservative 0; Mismatches 0; Indels 1; Gaps 1;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPSYLEITSVGIVAVKAINS 60



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ULT 10

```
--FGF7_PIG              STANDARD;          PRT;      194 AA.--  
ID   FGF7_PIG  
AC   Q9N198;  
CD     16-OCT-2001 (Rel. 40, Created)  
DEDT    16-OCT-2001 (Rel. 40, Last sequence update)  
DDT     28-FEB-2003 (Rel. 41, Last annotation update)  
DE DE    Keratinocyte growth factor precursor (KGF) (Fibroblast growth factor-  
       7) (FGF-7) (HBGF-7).  
GN FG7.  
OS Sus scrofa [Pig].  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
CC Mammalia; Eutheria; Cetartiodactyla; Suina; Suidae; Sus.  
NCBI_TaxID=9823;  
[1]  
RN SEQUENCE FROM N.A.  
RC TISSUE=Endometrium;  
RA MEDLINE=20297022; PubMed=10819782;  
RX Ka H., Spencer T.E., Johnson G.A., Bazer F.W.;  
RT "Keratinocyte growth factor: expression by endometrial epithelia of  
RRL the porcine uterus.";  
RLL Biol. Reprod. 62:1772-1778(2000).  
CC -!- FUNCTION: Growth factor active on keratinocytes. Possible major  
CC paracrine effector of normal epithelial cell proliferation (By  
CC similarity).  
CC -(! SUBCELLULAR LOCATION: Secreted (by similarity).  
CC -!- SIMILARITY: Belongs to the heparin-binding growth factors family.  
-----  
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-----  
DR EMBL; AF217463; AAP26734.1; --  
DR RSSP; F31371; IG82.  
DR InterPro; IPR008996; Cytok_IL1_like.  
DR InterPro; IPR002348; IL1_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR PRODOM; PD000831; IL1 HBGF; 1.  
DR SMART; SMC0442; FGF; 1.  
DR PROSITE; PS00247; HBGF_FGF; 1.  
DR Growth factor; Mitogen; Signal.  
KW SIGNAL  
FT CHAIN           1         31 BY SIMILARITY.  
FF CHAIN           32        194 KERATINOCYTE GROWTH FACTOR.  
FT CARBOHYD        45        45 N-LINKED (GLCNAC . ) (POTENTIAL).  
SQ SEQUENCE        194 AA;  22463 MW;  BA449B5B45A731B0 CRC64;  
  
Query Match               54.2%; Score 405.5; DB 1; Length 194;  
Best Local Similarity    53.2%; Pred. No. 7.1e-32;  
Matches                  74; Conservative 30; Mismatches 34; Indels 1; Gaps 1;  
  
QY 1 SYNHLQ-GDYWRKLFSFKYFLKEIKRGKVSGTKENCYPYSILEITSVEIGVAVKA IN 59  
Db |::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|:  
SS SYDWMEGGDIRVRLEFCRIQTGPRIQRGKKVGAGTGEMKNYNIMEIRTVAGIVAIGVV 114  
  
QY 60 SNYYLVANKKGKLYGSKEFNNDCKLERTEENGNYNTYASFNQWNGRMGVVALANGKAP R 119  
Db |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:  
115 SEYLVA NKEGKYAKYEKFENEDCNFKELI ENHNYTYASAKWTSHSGGMF VALNKQGV PV 174  
  
QY 120 RGQTRRKNTSAHF LPM V 138  
Db |:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:|:~::~~::~~::~~::~~::  
175 RGKT KXEQNTAH FL PMAI 193  
  
RESULT 11  
PGF7_RAT  
ID   PGF7_RAT  
AC   Q02195;  
DT 01-JUL-1993 (Rel. 26, Created)  
DT 01-JUL-1993 (Rel. 26, Last sequence update)
```



Gallus.  
 NCBI\_TaxID=9031;  
 [1]  
 SEQUENCE FROM N.A.  
 STRAIN=Rhode Island red; TISSUE=Embryo;  
 MEDLINE=95309122; PubMed=7789270;  
 Mahmood R., Kiefer P., Guthrie S., Dickson C., Mason I.;  
 "Multiple roles for FGF-3 during cranial neural development in the  
 chicken";  
 Development 121:1399-1410(1995).  
 CC -!- FUNCTION: POTENT MITOGEN AND TRANSFORMING AGENT (BY SIMILARITY).  
 CC -!- SIMILARITY: Belongs to the heparin-binding growth factors family.  
 CC -----  
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 CC -----  
 CC EMBL; Z47555; CAA97635.1; -.  
 CC PIR; I50588; I50588.  
 CC HSSP; P31371; I50588.  
 CC InterPro; IPR008996; Cytok\_IL1\_like.  
 CC InterPro; IPR002348; IL1\_HBGF.  
 CC Pfam; PF00167; FGF; 1.  
 CC PRINTS; PR00262; IL1HBGF.  
 CC ProDom; PD000831; IL1\_HBGF; 1.  
 CC SMART; SM00442; FGF; 1.  
 CC PROSITE; PS00247; HBGF\_FGF; 1.  
 CC Growth factor; Mitogen; Signal; Glycoprotein.  
 CC SIGNAL 1 19 POTENTIAL.  
 CC CHAIN 20 220 FIBROBLAST GROWTH FACTOR-3.  
 CC CARBOHYD 66 66 N-LINKED (GLCNAC. .) (POTENTIAL).  
 CC SEQUENCE 220 AA; 25050 MW; B15D41D1B551C5D5 CRC64;  
 Query Match 48.5%; Score 363; DB 1; Length 220;  
 Best Local Similarity 49.7%; Pred. No. 9.6e-28;  
 Matches 75; Conservative 25; Mismatches 39; Indels 12; Gaps 2;  
 2 YNHLDGVWRKLFSGTKYFLKIEKNGKVGSKKENCPSYILETSVEIGVAVKAINSN 61  
 37 YEHLLGAPRRKLYCATKYHLQHPGKINGTLEKNSVFSILEITAVDVGIVAIGLFGS 96  
 62 YILAMNKKGLYSGKEFNNDCKLKERIEENGNTYAS--FNWQHG-----RQMY 109  
 97 RYLAMNKGRLYASENYNTPECFEVRHIELGYNTYASRLYRTVPAGATKKKASERLWY 156  
 110 VALNGKAPRRGQTKRRKNTSAHFLPMVHS 140  
 157 VSVNGKRRGGRGFKTRRTQKSLFLPRVLD 187

SULT 14  
 F3\_XENLA  
 FGF3\_XENLA STANDARD; PRT; 237 AA.  
 P36366;  
 01-JUN-1994 (Rel. 29, Created)  
 01-JUN-1994 (Rel. 29, Last sequence update)  
 01-NOV-1997 (Rel. 35, Last annotation update)  
 Fibroblast growth factor-3 precursor (FGF-3) (INT-2).  
 FGF3.  
 Xenopus laevis (African clawed frog).  
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 Amphibia; Batrachia; Anura; Mesobatrachia; Pipoidae; Pipidae;  
 Xenopodinae; Xenopus.  
 NCBI\_TaxID=8355;  
 [1]  
 SEQUENCE FROM N.A., AND PARTIAL SEQUENCE.  
 MEDLINE=9403898; PubMed=8223431;  
 Kiefer P., Mathieu M., Close J.M., Peters G., Dickson C.;  
 "FGF3 from Xenopus laevis";

EMBO J. 12:4159-4168(1993).  
 [2]  
 RN SEQUENCE OF 39-137 FROM N.A.  
 RP TISSUE=Neurula;  
 RC MEDLINE=93048831; PubMed=1425349;  
 RX Tannahill D., Isaacs H.V., Close M.J., Peters G., Slack J.M.W.;  
 RA "Developmental expression of the Xenopus int-2 (FGF-3) gene:  
 RT activation by mesodermal and neural induction.";  
 RL Development 115:695-702(1992).  
 CC -!- FUNCTION: POTENT MITOGEN AND TRANSFORMING AGENT.  
 CC -!- SIMILARITY: Belongs to the heparin-binding growth factors family.  
 CC -----  
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 CC -----  
 CC EMBL; Z25539; CAA80987.1; -.  
 CC EMBL; X65237; CAA46341.1; -.  
 CC PIR; S39582; S39582.  
 CC HSSP; P31371; I682.  
 CC InterPro; IPR008996; Cytok\_IL1\_like.  
 CC InterPro; IPR002348; IL1\_HBGF.  
 CC Pfam; PF00167; FGF; 1.  
 CC PRINTS; PR00262; IL1HBGF.  
 CC ProDom; PD000831; IL1\_HBGF; 1.  
 CC SMART; SM00442; FGF; 1.  
 CC PROSITE; PS00247; HBGF\_FGF; 1.  
 CC Growth factor; Mitogen; Signal; Glycoprotein.  
 CC SIGNAL 1 21 FIBROBLAST GROWTH FACTOR-3.  
 CC CHAIN 22 237 N-LINKED (GLCNAC. .).  
 CC CARBOHYD 83 83 N-LINKED (GLCNAC. .).  
 CC SEQUENCE 237 AA; 26984 MW; EDD31B0893567A2D CRC64;  
 Query Match 47.9%; Score 358; DB 1; Length 237;  
 Best Local Similarity 49.7%; Pred. No. 3.1e-27;  
 Matches 74; Conservative 26; Mismatches 37; Indels 12; Gaps 2;  
 QY 2 YNHLDGVWRKLFSGTKYFLKIEKNGKVGSKKENCPSYILETSVEIGVAVKAINSN 61  
 DB 54 YEHLLGAPRRKLYCATKYHLQHPGKINGTLEKNSVFSILEITAVDVGIVAIGLFGS 113  
 QY 62 YILAMNKKGLYSGKEFNNDCKLKERIEENGNTYAS--FNWQHG-----RQMY 109  
 DB 114 RYLAMNKGRLYASENYNTPECFEVRHIELGYNTYASRLYRTVPAGATKKKASERLWY 173  
 QY 110 VALNGKAPRRGQTKRRKNTSAHFLPMVW 138  
 DB 174 VSVNGKRRGGRGFKTRRTQKSLFLPRVL 202  
 RESULT 15  
 FGF3\_MOUSE  
 ID FGF3\_MOUSE STANDARD; PRT; 245 AA.  
 AC P05524;  
 DT 01-NOV-1988 (Rel. 09, Created)  
 DT 01-NOV-1988 (Rel. 09, Last sequence update)  
 DT 28-FEB-2003 (Rel. 41, Last annotation update)  
 DE INT-2 proto-oncogene protein precursor (Fibroblast growth factor-3)  
 DE (FGF-3) (HBGF-3).  
 DE FGF3 OR FGF-3 OR INT-2.  
 GN Mus musculus (Mouse).  
 OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
 OX NCBI\_TaxID=10090;  
 RN [1]  
 RP SEQUENCE FROM N.A.  
 RX MEDLINE=86247582; PubMed=3013624;  
 RA Moore R., Casey G., Brookes S., Dixon M., Peters G., Dickson C.;  
 RT "Sequence, topography and protein coding potential of mouse int-2: a



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OM protein - protein search, using sw model

Run on: March 26, 2004, 03:25:26 ; Search time 43 Seconds  
(without alignments)  
169.531 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208

Perfect score: 748

Sequence: 1 SYNHLQDVNRKLFSTFKY.....GOKTRKNTSAHFLPMVHVS 140

Scoring table:

BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 141681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt\_42:\*

Pred. No. is the number of results predicted by chance to have a  
score greater than or equal to the score of the result being printed,  
and is derived by analysis of the total score distribution.

#### SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	748	100.0	208	1	FGFA_HUMAN
2	748	100.0	215	1	FGFA_RAT
3	712	95.2	209	1	FGFA_MOUSE
4	435	58.2	162	1	FGFM_MOUSE
5	426	57.0	170	1	FGFM_HUMAN
6	416.5	55.7	194	1	FGF7_SHEEP
7	415.5	55.5	194	1	FGF7_CANFA
8	414.5	55.4	194	1	FGF7_HUMAN
9	411.5	55.0	194	1	FGF7_PIG
10	405.5	54.2	194	1	FGF7_RAT
11	398.5	53.3	194	1	FGF3_BRARE
12	369	49.3	256	1	FGF3_CHICK
13	363	48.5	220	1	FGF3_XENLA
14	358	47.9	237	1	FGF3_MOUSE
15	352.5	47.1	245	1	FGF3_HUMAN
16	341.5	45.7	239	1	FGF9_HUMAN
17	324	43.3	208	1	FGF9_MOUSE
18	324	43.3	208	1	FGF9_RAT
19	324	43.3	208	1	FGF9_HUMAN
20	319	42.6	207	1	FGFG_HUMAN
21	315	42.1	207	1	FGFG_RAT
22	307	41.0	209	1	FGF9_XENLA
23	303	40.5	211	1	FGFK_HUMAN
24	265.5	35.5	268	1	FGF5_HUMAN
25	262.5	35.1	264	1	FGF5_MOUSE
26	262.5	35.1	266	1	FGF5_RAT
27	248	33.2	245	1	FGFD_MOUSE
28	245.5	33.0	192	1	FGFB_XENLA
29	245.5	32.8	187	1	FGFA_XENLA
30	245	32.8	245	1	FGFD_HUMAN
31	241.5	32.3	208	1	FGF6_MOUSE
32	241	32.2	243	1	FGFC_HUMAN
33	239.5	32.0	208	1	FGF6_HUMAN

#### ALIGNMENTS

##### RESULT 1

ID	FGFA_HUMAN	STANDARD;	PRT;	208 AA.
AC	O15520;			
DT	15-JUL-1999 (Rel. 38, Created)			
DT	15-JUL-1999 (Rel. 38, Last sequence update)			
DT	10-OCT-2003 (Rel. 42, Last annotation update)			
DE	Fibroblast growth factor-10 precursor (FGF-10) (Keratinocyte growth factor 2).			
GN	FGF10.			
OS	Homo sapiens (Human).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.			
OX	NCBI_TaxID=9606;			
RP	[1]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Lung;			
RX	MEDLINE=97435285; PubMed=9287324;			
RA	Emoto H., Tagashira S., Mattei M.-G., Yamasaki M., Hashimoto G.,			
RA	Katsumata T., Negrozo T., Nakatsuoka M., Birnbaum D., Coulier P.,			
RA	Itoh N.;			
RT	"Structure and expression of human fibroblast growth factor-10.";			
RL	J. Biol. Chem. 272:23191-23194(1997).			
RN	[2]			
RP	SEQUENCE FROM N.A.			
RC	TISSUE=Lung;			
RA	Jimenez P.A., Gruber J.R., Liu B., Feng P., Florence C., Blunt A.,			
RA	Huddleston K.A., Teliska M., Alfonso P., Coleman T.A., Ornitz D.M.,			
RA	Dillon P.A., Duan R.D.;			
RT	"Cutaneous wound healing by keratinocyte growth factor 2.";			
RL	Submitted (JUL-1997) to the EMBL/GenBank/DDAJ databases.			
CC	-!- FUNCTION: COULD BE A GROWTH FACTOR ACTIVE IN THE PROCESS OF WOUND			
CC	HEALING. ACTS AS A MITOGEN IN THE LUNG. MAY ACT IN A MANNER			
CC	SIMILAR TO FGF-7.			
CC	-!- SUBCELLULAR LOCATION: Secreted (Potential).			
CC	-!- SIMILARITY: Belongs to the heparin-binding growth factors family.			
CC	This SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
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CC	or send an email to <a href="mailto:license@isb-sib.ch">license@isb-sib.ch</a> ).			
CC	EMBL; AB002097; BAA22331.1; -.			
DR	EMBL; U67918; AAB61991.1; -.			
DR	PDB; INUN; 04-MAR-03.			
DR	Genew; HGNC:3666; FGF10.			
DR	MIM; 602115; -.			
DR	GO; GO:0005615; C:extracellular space; TAS.			
DR	GO; GO:0008083; P:growth factor activity; TAS.			
DR	GO; GO:0007397; P:histogenesis and organogenesis; TAS.			
DR	GO; GO:000074; P:regulation of cell cycle; TAS.			
DR	InterPro; IPR008996; Cytok IL1-like.			
DR	InterPro; IPR002348; IL1_HBGF.			





DR MGD; MGI:109809; Fgf10.  
DR GO; GO:0001759; P:induction of an organ; IMP.  
DR GO; GO:0009887; P:organogenesis; IMP.  
DR InterPro; IPR008996; Cytok\_IL1\_like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRODOM; PD000831; IL1\_HBGF.  
DR SMART; SMO0442; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR PRODOM; PD000831; IL1\_HBGF; 1.  
DR SMART; SMO0442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
DR Growth factor; Signal.  
KW SIGNAL 1 36 POTENTIAL.  
FT CHAIN 37 209 FIBROBLAST GROWTH FACTOR-10.  
FT DOMAIN 52 63 POLY-SER.  
FT CARBOHYD 50 50 N-LINKED (GLCNAC...) (POTENTIAL).  
FT CARBOHYD 197 197 N-LINKED (GLCNAC...) (POTENTIAL).  
SQ SEQUENCE 209 AA; 23597 MW; 7FD2222BF4943CC CRC64;  
  
Query Match 95.2%; Score 712; DB 1; Length 209;  
Best Local Similarity 93.6%; Pred. No. 3.3e-61;  
Matches 131; Conservative 5; Mismatches 4; Indels 0; Gaps 0;  
  
QY 1 SYNHLQGVVRWKLFSFTKFKLKIENKGVSGTKKENCPSYLEITSVEIGVAVKAINS 60  
DB 70 SYNHLQGVVRWKLFSFTKFKLKIENKGVSGTKKENCPSYLEITSVEIGVAVKAINS 129  
QY 61 NYLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYASFNQWQNGROMYVALNGKAPRR 120  
DB 130 NYLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYASFNQWQNGROMYVALNGKAPRR 199  
QY 121 GQTRKNTSAHFLPMVHS 140  
DB 190 GQTRKNTSAHFLPMVHS 209  
  
RESULT 4  
ID\_FGF\_MOUSE STANDARD; PRT; 162 AA.  
AC Q9ES2;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 16-OCT-2001 (Rel. 40, Last annotation update)  
DE Fibroblast growth factor-22 precursor (FGF-22).  
GN FGF22.  
OS Mus musculus (Mouse).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.  
OX NCBI\_TaxID=10090;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=21240339; PubMed=11342227;  
RA Nakatake Y., Hoshikawa M., Asaki T., Kassai Y., Itoh N.;  
RT Identification of a novel fibroblast growth factor, FGF-22,  
RT preferentially expressed in the inner root sheath of the hair  
RT follicle.  
RL Biochim. Biophys. Acta 1517:460-463(2001).  
CC -1- FUNCTION: May be involved in hair development.  
CC -1- SUBCELLULAR LOCATION: Secreted (Potential).  
CC -1- TISSUE SPECIFICITY: Preferential expressed in skin; low expression  
CC in brain. Expressed in the inner root sheath of the hair follicle.  
CC -1- SIMILARITY: Belongs to the heparin-binding growth factors family.  
CC  
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CC or send an email to [license@isb-sib.ch](mailto:license@isb-sib.ch).  
CC  
CC EMBL; AB036765; BAB16407.1; -  
CC HSSP; F31371; IG82.  
CC MGD; MGI:1914362; Fgf22.

DR InterPro; IPR008996; Cytok\_IL1\_like.  
DR InterPro; IPR002348; IL1\_HBGF.  
DR Pfam; PF00167; FGF; 1.  
DR PRINTS; PR00262; IL1HBGF.  
DR PRODOM; PD000831; IL1\_HBGF.  
DR SMART; SMO0442; FGF; 1.  
DR PROSITE; PS00247; HBGF\_FGF; 1.  
DR Growth factor; Signal.  
KW SIGNAL 1 22 POTENTIAL.  
FT CHAIN 23 162 FIBROBLAST GROWTH FACTOR-22.  
FT SEQUENCE 162 AA; 18927 MW; 225EF512F4E1BE29 CRC64;  
  
Query Match 58.2%; Score 435; DB 1; Length 162;  
Best Local Similarity 54.0%; Pred. No. 8.6e-35;  
Matches 75; Conservative 33; Mismatches 31; Indels 0; Gaps 0;  
  
QY 2 YNHLQGVVRWKLFSFTKFKLKIENKGVSGTKKENCPSYLEITSVEIGVAVKAINS 61  
DB 24 YPHLEGDVWRRLFSSTHFFLRDLGGRVQGTWRHGQDSIVSRVGTVVIVKAVYSG 83  
QY 62 YLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYASFNQWQNGROMYVALNGKAPRR 121  
DB 84 FYAMNRRGLYSGRVISVDCRFRIEENGNTYASGRWRHGRFELALDSQGIIPROG 143  
QY 122 QKTRKNTSAHFLPMVHS 140  
DB 144 RTRRHQLSTHFLPVLVS 162  
  
RESULT 5  
ID\_FGF\_HUMAN STANDARD; PRT; 170 AA.  
AC Q9HCTG;  
DT 16-OCT-2001 (Rel. 40, Created)  
DT 16-OCT-2001 (Rel. 40, Last sequence update)  
DT 15-MAR-2004 (Rel. 43, Last annotation update)  
DE Fibroblast growth factor-22 precursor (FGF-22) (UNQ2500/PRO5800).  
GN FGF22.  
OS Homo sapiens (Human).  
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.  
OX NCBI\_TaxID=9606;  
RN [1]  
RP SEQUENCE FROM N.A.  
RX MEDLINE=21240339; PubMed=11342227;  
RA Nakatake Y., Hoshikawa M., Asaki T., Kassai Y., Itoh N.;  
RT Identification of a novel fibroblast growth factor, FGF-22,  
RT preferentially expressed in the inner root sheath of the hair  
RT follicle.  
RL Biochim. Biophys. Acta 1517:460-463(2001).  
CC  
CC SEQUENCE FROM N.A.  
RX MEDLINE=22887296; PubMed=12975309;  
RA Chen J., Gurney A.L., Abaya E., Baker K., Baldwin D., Brush J.,  
RA Clark H.F., Chow B., Chui C., Crowley C., Currell B., Deuel B., Dowd P.,  
RA Eaton D., Foster J., Grimaldi C., Gu Q., Hass P.E., Heldens S.,  
RA Huang A., Kim H.S., Klinkowski L., Jin Y., Johnson S., Lee J.,  
RA Lewis L., Liao D., Mark M., Robbie E., Sanchez C., Schoenfeld J.,  
RA Seshadri S., Simmons L., Singh J., Smith V., Stinson J., Vagts A.,  
RA Vanden R., Watanabe C., Wiedand D., Woods K., Xie M.-H., Yaneura D.,  
RA Yi S., Yu G., Yuan J., Zhang M., Zhang Z., Goddard A., Wood W.I.,  
RA Godowski P.;  
RT "The secreted protein discovery initiative (SPDI), a large-scale  
RT effort to identify novel human secreted and transmembrane proteins: a  
RT bioinformatics assessment."  
RL Genome Res. 13:2265-2270(2003).  
CC -1- FUNCTION: May be involved in hair development.  
CC -1- SUBCELLULAR LOCATION: Secreted (Potential).  
CC -1- SIMILARITY: Belongs to the heparin-binding growth factors family.  
CC  
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CC EMBL; AB021925; BAB13479.1; -.
CC EMBL; AY359084; AAQ89955.1; -.
CC HSSP; P31371; IG82.
CC Genew; HGNC:3679; FGF2.
CC MIM; 605831; -.
CC GO; GO:0005615; C:extracellular space; NAS.
CC GO; GO:000154; P:cell differentiation; NAS.
CC InterPro; IPR008996; Cytok_IL1_like.
CC InterPro; IPR002348; Cytok_IL1_HBGF.
CC Pfam; PF00167; FGF; 1.
CC PRINTS; PR00262; IL1HBGF.
CC ProDom; PD000831; IL1_HBGF; 1.
CC SMART; SM00442; FGF; 1.
CC PROSITE; PS00247; HBGF_FGF; FALSE_NEG.
KW Growth factor; Signal.
FT SIGNAL 1 22
FT CHAIN 23 170
SQ SEQUENCE 170 AA; 19662 MW; CB88918C2D54C7 CRC64;

Query Match 57.0%; Score 426; DB 1; Length 170;
Best Local Similarity 54.3%; Pred. No. 6.6e-34;
Matches 75; Conservative 33; Mismatches 30; Indels 0; Gaps 0;

QY 1 SYNHLQGDVWRKLFSTFYKFKIKNGKVGSTKXKPCYSILEITTSVEIGVAVKAIN 60
DB 32 SYPLEGDEVRRLPSTFTFFLRVDPGRVQGTWRHGQDSILEIRSVHGVVVIKAVSS 91
QY 61 NYLLAMNKKGLYGSKEFNNDCKLERIEENGYNTYASFVWQNGROMYVALNGKAPRR 120
DB 92 GFYVAMNRRGLYGSRLYTVDCFRERIEENGYNTYASFQRRGQPMFLADRRGGRRP 151
QY 121 GQKTRKNTSAHFLPMV 138
DB 152 GGRTRRYHLSAHFLPMV 169

RESULT 6
FGF7_SHEEP
ID FGF7_SHEEP STANDARD; PRT; 194 AA.
AC P48508;
RT 01-FEB-1996 (Rel. 33, Created)
TT 01-FEB-1996 (Rel. 33, Last sequence update)
TE 01-NOV-1997 (Rel. 35, Last annotation update)
DE Keratinocyte growth factor precursor (KGF) (Fibroblast growth factor-7) (FGF-7) (HBGF-7).
EN Ovis aries (Sheep).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae; Caprinae; Ovis.
NCBI_TaxID=9940;
SEQUENCE FROM N.A.
Submitted (OCT-1994) to the EMBL/GenBank/DBJ databases.
-!- FUNCTION: Growth factor active on keratinocytes. Possible major paracrine effector of normal epithelial cell proliferation.
-!- SIMILARITY: Belongs to the heparin-binding growth factors family.

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DR EMBL; Z46236; CAAB6306.1; -.
DR PIR; S49501; S49501.
DR HSSP; P31371; IG82.
DR InterPro; IPR008996; Cytok_IL1_like.
DR InterPro; IPR002348; Cytok_IL1_HBGF.
DR Pfam; PF00167; FGF; 1.
DR PRINTS; PR00262; IL1HBGF.
DR ProDom; PD000831; IL1_HBGF; 1.
DR SMART; SM00442; FGF; 1.
DR PROSITE; PS00247; HBGF_FGF; 1.
KW Growth factor; Mitogen; Signal.
FT SIGNAL 1 31
FT CHAIN 32 194
FT CARBOHYD 45 45
SQ SEQUENCE 194 AA; 22448 MW; 80FAF4BC5B76F668 CRC64;

Query Match 55.7%; Score 416.5; DB 1; Length 194;
Best Local Similarity 54.0%; Pred. No. 6.2e-33;
Matches 75; Conservative 30; Mismatches 33; Indels 1; Gaps 1;

QY 1 SYNHLQGDVWRKLFSTFYKFKIKNGKVGSTKXKPCYSILEITTSVEIGVAVKAIN 59
DB 55 SDYMEGGDIRVRLFCRTQYLAIDRQKVGKGTGMKNNTNWEIRFVAVGIVAKGVE 114
QY 60 SNYYLAMNKKGLYGSKEFNNDCKLERIEENGYNTYASFVWQNGROMYVALNGKAPRR 119
DB 115 SEYLLAMNKKGLYAKKEQEDCNFKELILENRYNTYASAKWTHSGGEMFVALNSKGPV 174
QY 120 RGQKTRKNTSAHFLPMV 138
DB 175 RGKTKKEQKTAHFLPMV 193

RESULT 7
FGF7_CANFA
ID FGF7_CANFA STANDARD; PRT; 194 AA.
AC P79150;
RT 16-OCT-2001 (Rel. 40, Created)
TT 16-OCT-2001 (Rel. 40, Last sequence update)
TE 16-OCT-2001 (Rel. 40, Last annotation update)
DE Keratinocyte growth factor precursor (KGF) (Fibroblast growth factor-7) (FGF-7) (HBGF-7).
EN Canis familiaris (Dog).
OS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Carnivora; Fissipedia; Canidae; Canis.
NCBI_TaxID=9615;
SEQUENCE FROM N.A.
MEDLINE=9626403; PubMed=8634153;
Canatan H., Chang W.Y., Sugimoto Y., Shidaifat F., Kulp S.K., Brueggemeier R.W., Lin Y.C.;
"Keratinocyte growth factor (KGF/FGF-7) has a paracrine role in canine prostate: molecular cloning of mRNA encoding canine KGF.";
DNA Cell Biol. 15:247-254(1996).
-!- FUNCTION: Growth factor active on keratinocytes. Possible major paracrine effector of normal epithelial cell proliferation.
-!- SUBCELLULAR LOCATION: Secreted.
-!- SIMILARITY: Belongs to the heparin-binding growth factors family.

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Result No.	Query %			DB	ID	Description
	Score	Match	Length			
1	416.5	55.7	194	2	S43501	keratinocyte growth
2	414.5	55.4	194	1	A36301	keratinocyte growth
3	411.5	55.0	194	2	I48610	keratinocyte growth
4	407.5	54.5	194	2	S26049	fibroblast growth
5	369	49.3	256	2	JC4627	fibroblast growth
6	363	48.5	220	2	I50588	fibroblast growth
7	358	47.9	237	1	S33582	transforming prote
8	352.5	45.1	245	1	TVMS12	transforming prote
9	341.5	45.7	239	1	SO4742	fibroblast growth
10	324	43.3	208	2	S66486	fibroblast growth
11	324	43.3	208	2	A48137	fibroblast growth
12	319	42.6	207	2	JCS941	fibroblast growth
13	315	42.1	207	2	JCS940	fibroblast growth
14	304	40.6	208	2	JC7082	fibroblast somatot
15	303	40.5	211	2	JC7353	fibroblast growth
16	302	40.4	212	2	JC7511	fibroblast growth
17	301	40.2	97	2	B46289	keratinocyte growth
18	297	39.7	98	2	C46289	keratinocyte growth
19	269	36.0	96	2	D46289	keratinocyte growth
20	265.5	35.5	267	1	TVHUF5	fibroblast growth
21	262.5	35.1	264	2	A36207	fibroblast growth
22	262.5	35.1	266	2	S68144	fibroblast growth
23	246.5	33.0	192	2	S54407	embryonic fibrobla
24	245.5	32.8	187	2	S23595	embryonic fibrobla
25	241.5	32.3	208	2	S14192	fibroblast growth
26	239.5	32.0	208	2	S20102	fibroblast growth
27	239	32.0	168	2	JG0184	fibroblast growth
28	234.5	31.4	194	1	I50710	fibroblast growth
29	203	27.1	146	1	SC0185	basic fibroblast g

A;Reference number: A31453; MUID:89128865; PMID:2915979  
A;Accession: A31453  
A;Molecule type: protein  
A;Residues: 'X',33-44 <SUB>  
A;Experimental source: embryonic lung cell fibroblast line M426  
R;Keller, M.J.; Pech, M.; Seauz, H.N.; Rubin, J.S.; O'Brien, S.J.; Aaronson, S.A.  
Proc. Natl. Acad. Sci. U.S.A. 89, 9287-9291, 1992  
A;Title: Emergence of the keratinocyte growth factor multigene family during the great a  
A;Reference number: A46289; MUID:93028449; PMID:1409637  
A;Accession: A46289  
A;Molecule type: DNA  
A;Residues: 97-194 <SEL>  
A;Note: sequence extracted from NCBI backbone (NCBIN:115887, NCBI:P:115889)  
R;Aaronson, S.A.; Botaro, D.P.; Miki, T.; Ron, D.; Finch, P.W.; Fleming, T.P.; Ahn, J.;  
Ann. N. Y. Acad. Sci. 638, 62-77, 1991  
A;Title: Keratinocyte growth factor. A fibroblast growth factor family member with unusu  
A;Reference number: I51958; MUID:92152720; PMID:1664700  
A;Accession: I51958  
A;Status: translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-194 <AAR>  
A;Cross-references: GB:S81661; NID:9245438; PIDN:AA821431.1; PID:G245439  
C;Genetics:  
A;Gene: GDB:FGF7  
A;Cross-references: GDB:I31444; OMIM:148180  
A;Map position: 15q13-15q22  
A;Note: the human genome contains about 16, intron-containing, partial copies of this ge  
C;Superfamily: fibroblast growth factor  
C;Keywords: extracellular protein; growth factor; heparin binding; mitogen  
F;1-31/Domain: signal sequence #status predicted <SIG>  
F;32-194/Product: fibroblast growth factor 7 #status experimental <MAT>  
Query Match 55.4%; Score 414.5; DB 1; Length 194;  
Best Local Similarity 54.0%; Pred. No. 1.5e-32;  
Matches 75; Conservative 30; Mismatches 33; Indels 1; Gaps 1;  
QY 1 SYNHLQ-GDVRWRKLPSTTKYFLKIKNGKVGSTKENCPCYSILETSVEIGVAVKAIN 59  
DB 55 SYDYMEGGDIRVRRLFCRTQYLRIDRGKVGQEMKNYINMEIRTVAVGIVAIGVE 114  
QY 60 SNYILAMNKGKLYGSKFENNDCFKLIERIENGNTYASFNWQHNGROMYVALNKGAPR 119  
DB 115 SFYILAMNKGKLYAKKECNEDCNFKELILENHNTYASAKWTHSGEMFVALNKGIPV 174  
QY 120 RGQTRKNTSAHFLPMV 138  
DB 175 KGKTKKQKTAHFLPMAI 193  
RESULT 3  
I48610  
keratinocyte growth factor Fgf-7 - mouse  
C;Species: Mus musculus (house mouse)  
C;Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 16-Jul-1999  
C;Accession: I48610; S33227  
R;Mason, I.J.; Fuller-Pace, F.; Smith, R.; Dickson, C.  
Mech. Dev. 45, 15-30, 1994  
A;Title: FGF-7 (keratinocyte growth factor) expression during mouse development suggests  
A;Reference number: I48610; MUID:94245659; PMID:8186145  
A;Accession: I48610  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-194 <RES>  
A;Cross-references: EMBL:Z22703; NID:9297755; PIDN:CAA80403.1; PID:G297756  
C;Superfamily: fibroblast growth factor  
Query Match 55.0%; Score 411.5; DB 2; Length 194;  
Best Local Similarity 53.2%; Pred. No. 2.9e-32;  
Matches 74; Conservative 31; Mismatches 33; Indels 1; Gaps 1;  
QY 1 SYNHLQ-GDVRWRKLPSTTKYFLKIKNGKVGSTKENCPCYSILETSVEIGVAVKAIN 59  
DB 55 SYDYMEGGDIRVRRLFCRTQYLRIDRGKVGQEMKNYINMEIRTVAVGIVAIGVE 114  
A;Reference number: A31453; MUID:89128865; PMID:2915979  
A;Accession: A31453  
A;Molecule type: protein  
A;Residues: 'X',33-44 <SUB>  
A;Experimental source: embryonic lung cell fibroblast line M426  
R;Keller, M.J.; Pech, M.; Seauz, H.N.; Rubin, J.S.; O'Brien, S.J.; Aaronson, S.A.  
Proc. Natl. Acad. Sci. U.S.A. 89, 9287-9291, 1992  
A;Title: Emergence of the keratinocyte growth factor multigene family during the great a  
A;Reference number: A46289; MUID:93028449; PMID:1409637  
A;Accession: A46289  
A;Molecule type: DNA  
A;Residues: 97-194 <SEL>  
A;Note: sequence extracted from NCBI backbone (NCBIN:115887, NCBI:P:115889)  
R;Aaronson, S.A.; Botaro, D.P.; Miki, T.; Ron, D.; Finch, P.W.; Fleming, T.P.; Ahn, J.;  
Ann. N. Y. Acad. Sci. 638, 62-77, 1991  
A;Title: Keratinocyte growth factor. A fibroblast growth factor family member with unusu  
A;Reference number: I51958; MUID:92152720; PMID:1664700  
A;Accession: I51958  
A;Status: translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-194 <AAR>  
A;Cross-references: GB:S81661; NID:9245438; PIDN:AA821431.1; PID:G245439  
C;Genetics:  
A;Gene: GDB:FGF7  
A;Cross-references: GDB:I31444; OMIM:148180  
A;Map position: 15q13-15q22  
A;Note: the human genome contains about 16, intron-containing, partial copies of this ge  
C;Superfamily: fibroblast growth factor  
C;Keywords: extracellular protein; growth factor; heparin binding; mitogen  
F;1-31/Domain: signal sequence #status predicted <SIG>  
F;32-194/Product: fibroblast growth factor 7 #status experimental <MAT>  
Query Match 55.4%; Score 414.5; DB 1; Length 194;  
Best Local Similarity 54.0%; Pred. No. 1.5e-32;  
Matches 75; Conservative 30; Mismatches 33; Indels 1; Gaps 1;  
QY 1 SYNHLQ-GDVRWRKLPSTTKYFLKIKNGKVGSTKENCPCYSILETSVEIGVAVKAIN 59  
DB 55 SYDYMEGGDIRVRRLFCRTQYLRIDRGKVGQEMKNYINMEIRTVAVGIVAIGVE 114  
QY 60 SNYILAMNKGKLYGSKFENNDCFKLIERIENGNTYASFNWQHNGROMYVALNKGAPR 119  
DB 115 SFYILAMNKGKLYAKKECNEDCNFKELILENHNTYASAKWTHSGEMFVALNKGIPV 174  
QY 120 RGQTRKNTSAHFLPMV 138  
DB 175 KGKTKKQKTAHFLPMAI 193  
RESULT 3  
I48610  
keratinocyte growth factor Fgf-7 - mouse  
C;Species: Mus musculus (house mouse)  
C;Date: 02-Jul-1996 #sequence\_revision 02-Jul-1996 #text\_change 16-Jul-1999  
C;Accession: I48610; S33227  
R;Mason, I.J.; Fuller-Pace, F.; Smith, R.; Dickson, C.  
Mech. Dev. 45, 15-30, 1994  
A;Title: FGF-7 (keratinocyte growth factor) expression during mouse development suggests  
A;Reference number: I48610; MUID:94245659; PMID:8186145  
A;Accession: I48610  
A;Status: preliminary; translated from GB/EMBL/DBJ  
A;Molecule type: mRNA  
A;Residues: 1-194 <RES>  
A;Cross-references: EMBL:Z22703; NID:9297755; PIDN:CAA80403.1; PID:G297756  
C;Superfamily: fibroblast growth factor  
Query Match 55.0%; Score 411.5; DB 2; Length 194;  
Best Local Similarity 53.2%; Pred. No. 2.9e-32;  
Matches 74; Conservative 31; Mismatches 33; Indels 1; Gaps 1;  
QY 1 SYNHLQ-GDVRWRKLPSTTKYFLKIKNGKVGSTKENCPCYSILETSVEIGVAVKAIN 59  
DB 55 SYDYMEGGDIRVRRLFCRTQYLRIDRGKVGQEMKNYINMEIRTVAVGIVAIGVE 114

```
A:Gene: Fgf-3
A:Introns: 93/2; 127/3
C:Superfamily: fibroblast growth factor
C:Keywords: embryo; fibroblast; growth factor

Query Match      49.3%; Score 369; DB 2; Length 256;
Best Local Similarity 48.7%; Pred. No. 4.9e-28;
Matches 77; Conservative 23; Mismatches 34; Indels 24; Gaps 2;

Qy 2 YNHLOGDVRWRKLFSTKYFLKIEKNGKVGSKKENCPSYLSLEITSVEIGVAVKAINSN 61
Db 54 YEHLOGAPRRKLYCATKYHLQHPNGKIDGSLSENNPLSILEITAVDVGVAIKGLFSG 113
Qy 62 YLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYASFNQHG-----105
Db 114 RYLANMKRGLYASEVNECEFLERHELGYNTYAS---RHNTTQPPPTGGIGGSKR 170
Qy 106 -----ROMYVALNGKAPRRGQKTRKNTSAHFLPMV 138
Db 171 RASSKROWYVINGKGRPRRGFKTRTDKASLFLPRVL 208

RESULT 6
150388
fibroblast growth factor 3 - chicken
C:Species: Gallus gallus (chicken)
C:Date: 13-Sep-1996 #sequence_revision 13-Sep-1996 #text_change 17-Mar-2000
C:Accession: I50588
R:Mahmood, R.; Kiefer, P.; Guthrie, S.; Dickson, C.; Mason, I.
Development 121, 1395-1410, 1995
A:Title: Multiple roles for FGF-3 during cranial neural development in the chicken.
A:Reference number: I50588; MUID:95309122; PMID:7789270
A:Accession: I50588
A:Status: preliminary; translated from GB/EMBL/DDBJ
A:Molecule type: mRNA
A:Residues: 1-220 <NAH>
A:Cross-references: EMBL:Z47555; NID:G623215; PIDN:CAA87635.1; PID:G623216
C:Superfamily: fibroblast growth factor

Query Match      48.5%; Score 363; DB 2; Length 220;
Best Local Similarity 49.7%; Pred. No. 1.6e-27;
Matches 75; Conservative 25; Mismatches 39; Indels 12; Gaps 2;

Qy 2 YNHLOGDVRWRKLFSTKYFLKIEKNGKVGSKKENCPSYLSLEITSVEIGVAVKAINSN 61
Db 37 YEHLOGAPRRKLYCATKYHLQHPNGKIDGSLSENNPLSILEITAVDVGVAIKGLFSG 96
Qy 62 YLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYAS---FNQHG-----ROMY 109
Db 97 RYLANMKRGLYASEVNECEFLERHELGYNTYASRLYRTVPSCASTKXKASAERLWY 156
Qy 110 VALNGKAPRRGQKTRKNTSAHFLPMV 140
Db 157 VSVNGKGRPRRGFKTRTDKASLFLPRVL 187

RESULT 7
339582
transforming protein int-2 - African clawed frog
N:Alternate names: FGF-3 protein; fibroblast growth factor 3
C:Species: Xenopus laevis (African clawed frog)
C:Date: 10-Sep-1999 #sequence_revision 10-Sep-1999 #text_change 10-Sep-1999
C:Accession: S39582; S25713
R:Kiefer, P.; Mathieu, M.; Close, M.J.; Peters, G.; Dickson, C.
EMBO J. 12, 4159-4168, 1993
A:Title: FGF3 from Xenopus laevis.
A:Reference number: S39582; MUID:94038898; PMID:8223431
A:Accession: S39582
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 1-237 <KIE>
A:Cross-references: EMBL:Z25539; NID:G396830; PIDN:CAA80987.1; PID:G396831
R:Tannahill, D.; Isaacs, H.V.; Close, M.J.; Peters, G.; Slack, J.M.W.

Development 115, 695-702, 1992
A:Title: Developmental expression of the Xenopus int-2 (FGF-3) gene: activation by mes
A:Reference number: S25713; MUID:93048831; PMID:1425349
A:Accession: S25713
A:Status: preliminary
A:Molecule type: mRNA
A:Residues: 39-137 <TAN>
A:Cross-references: EMBL:X65237; NID:G64855; PIDN:CAA46341.1; PID:G64856
C:Superfamily: fibroblast growth factor

Query Match      47.9%; Score 358; DB 1; Length 237;
Best Local Similarity 49.7%; Pred. No. 5.2e-27;
Matches 74; Conservative 26; Mismatches 37; Indels 12; Gaps 2;

Qy 2 YNHLOGDVRWRKLFSTKYFLKIEKNGKVGSKKENCPSYLSLEITSVEIGVAVKAINSN 61
Db 54 YEHLOGAPRRKLYCATKYHLQHPNGKIDGSLSENNPLSILEITAVDVGVAIKGLFSG 113
Qy 62 YLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYAS---FNQHG-----ROMY 109
Db 114 RYLANMKRGLYASEVNECEFLERHELGYNTYASRLYRTVPSCAGTKKXKASAERLWY 173
Qy 110 VALNGKAPRRGQKTRKNTSAHFLPMV 138
Db 174 VSVNGKGRPRRGFKTRTDKASLFLPRVL 202

RESULT 8
TVMST2
transforming protein (int-2) - mouse
C:Species: Mus musculus (house mouse)
C:Date: 31-Dec-1989 #sequence_revision 31-Dec-1989 #text_change 18-Jun-1999
C:Accession: A23930; S08157
R:Moore, R.; Casey, G.; Brookes, S.; Dixon, M.; Peters, G.; Dickson, C.
EMBO J. 5, 919-924, 1986
A:Title: Sequence, topography and protein coding potential of mouse int-2: a putative
A:Reference number: A23930; MUID:86247582; PMID:3013624
A:Accession: A23930
A:Molecule type: DNA; mRNA
A:Residues: 1-245 <MOO>
A:Cross-references: GB:Y00848; GB:M26284; GB:X68450; NID:G52716; PIDN:CAA68767.1; PID:
R:Acland, P.; Dixon, M.; Peters, G.; Dickson, C.
Nature 343, 662-665, 1990
A:Title: Subcellular fate of the int-2 oncoprotein is determined by choice of initiati
A:Reference number: S08157; MUID:90158795; PMID:2406607
A:Accession: S08157
A:Status: not compared with conceptual translation
A:Molecule type: mRNA
A:Residues: 'HSRAGLARGVLPAPRLRETRAGAAAAAGGRDAGM', 3-17 <ACL>
C:Genetics:
A:Gene: int-2
A:Map position: 7
A:Introns: 74/1; 108/3
C:Superfamily: fibroblast growth factor
C:Keywords: growth factor; transforming protein

Query Match      47.1%; Score 352.5; DB 1; Length 245;
Best Local Similarity 51.0%; Pred. No. 1.8e-26;
Matches 76; Conservative 22; Mismatches 38; Indels 13; Gaps 3;

Qy 2 YNHLOGDVRWRKLFSTKYFLKIEKNGKVGSKKENCPSYLSLEITSVEIGVAVKAINSN 61
Db 36 YEHLOGAPRRKLYCATKYHLQHPNGKIDGSLSENNPLSILEITAVDVGVAIKGLFSG 94
Qy 62 YLLAMNKKGLYSGKEFNNDCKLKERIEENGNTYAS---FNQHG-----ROMY 109
Db 95 RYLANMKRGLYASEVNECEFLERHELGYNTYASRLYRTVGSSGPGAQRPQY 154
Qy 110 VALNGKAPRRGQKTRKNTSAHFLPMV 138
Db 155 VSVNGKGRPRRGFKTRTDKASLFLPRVL 183
```

## RESULT 9

S04742 fibroblast growth factor 3 precursor - human  
N:Alternate names: transforming protein int-2  
C:Species: Homo sapiens (man)  
C:Date: 10-Sep-1999 #sequence\_revision 10-Sep-1999 #text\_change 29-Sep-1999  
C:Accession: S04742  
R:Brookes, S.; Smith, R.; Casey, G.; Dickson, C.; Peters, G.  
Oncogene 4, 429-436, 1989  
A:Title: Sequence organization of the human int-2 gene and its expression in teratocarcinoma  
A:Reference number: S04742; MUID:89239468; PMID:2470007  
A:Accession: S04742  
A:Molecule type: DNA  
A:Residues: 1-239 <BRO>  
A:Cross-references: EMBL:X14445; NID:G33937; PIDN:CAA32615.1; PID:G312409  
C:Genetics:  
A:Gene: GDB:FGF3; INT2  
A:Cross-references: GDB:120103; OMIM:164950  
A:Map position: 11q13.3-11q13.3  
A:Introns: 74/1, 108/3  
C:Superfamily: fibroblast growth factor  
C:Keywords: growth factor  
F:1-17/Domain: signal sequence #status predicted <SIG>  
F:18-239/Product: transforming protein (int-2) #status predicted <MAT>

Query Match 45.7%; Score 341.5; DB 1; Length 239;  
Best Local Similarity 48.3%; Pred. No. 2e-25; Indels 13; Gaps 2;  
Matches 72; Conservative 26; Mismatches 38; Indels 13; Gaps 2;

QY 2 YNHQDVRWRKLFSTFKYFLKIKNGKVSCTKKENCPYSILEITSVETGVAVKAINSN 61

Db 36 YEHQGAARRKLYCATKYHLQHPGSRVNGS-LENGAYSILEITAVEGIVAIRGLFSG 94

QY 62 YLANMKKGLKYSKEFNNDCKLKERIEENGNYTASFNWQ-----HNGRQMY 109

Db 95 RYLANMKGRLYASHSYAECEPVERIHELGYTASRLYRTVSSSTPGARRQPSAERLWY 154

QY 110 VALNGKGPARGQKTRKNTSAHFLPMV 138

Db 155 VSVNGKGRPRGPKTRKNTQKSLFLPRVL 183

## RESULT 10

S66486 fibroblast growth factor 9 - mouse  
C:Species: Mus musculus (house mouse)  
C:Date: 28-Oct-1996 #sequence\_revision 13-Mar-1997 #text\_change 20-Jun-2000  
C:Accession: S66486  
R:Seo, M.; Noguchi, K.  
FEBS Lett. 370, 231-235, 1995  
A:Title: Retinoic acid induces gene expression of fibroblast growth factor-9 during induction of myoblast differentiation  
A:Reference number: S66486; MUID:95385801; PMID:7656983  
A:Accession: S66486  
A:Status: preliminary  
A:Molecule type: mRNA  
A:Residues: 1-208 <SEO>  
A:Cross-references: EMBL:D38258; NID:g1107458; PIDN:BAA07410.1; PID:g1107459  
C:Superfamily: fibroblast growth factor

Query Match 43.3%; Score 324; DB 2; Length 208;  
Best Local Similarity 43.5%; Pred. No. 8.3e-24;  
Matches 60; Conservative 33; Mismatches 43; Indels 2; Gaps 1;

QY 3 NHHQDVRWRKLFSTFKYFLKIKNGKVSCTKKENCPYSILEITSVETGVAVKAINSN 62

Db 55 DHLKGLILRRQLYCRGTGFHLEIFPNGTIQGTRKDSRFGILEFISIAVGLVIRGVDGL 114

QY 63 YLANMKKGLKYSKEFNNDCKLKERIEENGNYTASFNWQ--NGRQMYVALNGKGPAPR 120

Db 115 YLGNMKGELYGSEKLTQECVFRQFEENWNTYSSNLYKHVDTRRYVALNKGDPRE 174

QY 121 GQTRRKNTSAHFLPMV 138

Db 175 GTRTKRHQKFTFLPRPV 192

## RESULT 11

A48137 fibroblast growth factor 9 - human  
N:Alternate names: gliia-activating factor  
C:Species: Homo sapiens (man)  
C:Date: 21-Jan-1994 #sequence\_revision 18-Nov-1994 #text\_change 21-Jul-2000  
C:Accession: A48137  
R: Miyamoto, M.; Naruo, K.; Seko, C.; Matsumoto, S.; Kondo, T.; Kurokawa, T.  
Mol. Cell. Biol. 13, 4251-4259, 1993  
A:Title: Molecular cloning of a novel cytokine cDNA encoding the ninth member of the fi  
A:Reference number: A48137; MUID:93309459; PMID:8321227  
A:Accession: A48137  
A:Status: preliminary  
A:Molecule type: nucleic acid  
A:Residues: 1-208 <MIY>  
A:Cross-references: GDB:D14838; NID:G391718; PIDN:BAA03572.1; PID:G391719  
A:Experimental source: foreskin  
A:Note: sequence extracted from NCBI backbone (NCBI:134640, NCBIP:134641)  
C:Genetics:  
A:Gene: GDB:FGF9  
A:Cross-references: GDB:207221; OMIM:600921  
A:Map position: 13q11-13q12  
C:Superfamily: fibroblast growth factor

Query Match 43.3%; Score 324; DB 2; Length 208;  
Best Local Similarity 43.5%; Pred. No. 8.3e-24;  
Matches 60; Conservative 33; Mismatches 43; Indels 2; Gaps 1;  
QY 3 NHHQDVRWRKLFSTFKYFLKIKNGKVSCTKKENCPYSILEITSVETGVAVKAINSN 62

Db 55 DHLKGLILRRQLYCRGTGFHLEIFPNGTIQGTRKDSRFGILEFISIAVGLVIRGVDGL 114

QY 63 YLANMKKGLKYSKEFNNDCKLKERIEENGNYTASFNWQ--NGRQMYVALNGKGPAPR 120

Db 115 YLGNMKGELYGSEKLTQECVFRQFEENWNTYSSNLYKHVDTRRYVALNKGDPRE 174

QY 121 GQTRRKNTSAHFLPMV 138

Db 175 GTRTKRHQKFTFLPRPV 192

## RESULT 12

JC5941 fibroblast growth factor 16 - human  
C:Species: Homo sapiens (man)  
C:Date: 16-Jul-1999 #sequence\_revision 16-Jul-1999 #text\_change 21-Jul-2000  
C:Accession: JC5941  
R: Miyake, A.; Konishi, M.; Martin, F.H.; Hernday, N.A.; Ozaki, K.; Yamamoto, S.; Mikami,  
Biochem. Biophys. Res. Commun. 243, 148-152, 1998  
A:Title: Structure and expression of a novel member, FGF-16, of the fibroblast growth f  
A:Reference number: JC5940; MUID:98139883; PMID:9473496  
A:Accession: JC5941  
A:Status: preliminary  
A:Molecule type: DNA  
A:Residues: 1-207 <MIY>  
A:Cross-references: DDBJ:AB009391; NID:G2911169; PIDN:BAA24956.1; PID:G2911170  
C:Superfamily: fibroblast growth factor

Query Match 42.6%; Score 319; DB 2; Length 207;  
Best Local Similarity 43.2%; Pred. No. 2.5e-23;  
Matches 60; Conservative 33; Mismatches 44; Indels 2; Gaps 1;

QY 2 YNHQDVRWRKLFSTFKYFLKIKNGKVSCTKKENCPYSILEITSVETGVAVKAINSN 61

Db 53 FAHLKGLILRRQLYCRGTGFHLEIFPNGTIVHTRHDSRFGILEFISIAVGLVIRGVDGL 112

QY 62 YLANMKKGLKYSKEFNNDCKLKERIEENGNYTASFNWQNG--RQMYVALNGKGPAPR 119

Db 113 LYLGNMKGELYGSKLTQECVFRQFEENWNTYSSNLYKHSDSERQYVALNKGDSR 172

Qy 120 RGQTRKNTSAHFLPMV 138  
Db 173 EGYTRKHQKFTFLPRPV 191

## RESULT 13

JC5940  
fibroblast growth factor 16 - rat  
C/Species: Rattus norvegicus (Norway rat)  
C/Date: 16-Jul-1999 #sequence\_revision 16-Jul-1999 #text\_change 21-Jul-2000  
C/Accession: JC5940  
R/Miyake, A.; Konishi, M.; Martin, P.H.; Hernday, N.A.; Ozaki, K.; Yamamoto, S.; Mikami,  
Biochem. Biophys. Res. Commun. 245, 148-152, 1998  
A/Title: Structure and expression of a novel member, FGF-16, of the fibroblast growth fa  
A/Reference number: JC5940; MUID:98139883; PMID:9473496  
A/Accession: JC5940  
A/Status: preliminary  
A/Molecule type: DNA  
A/Residues: 1-207 <MIY>  
A/Cross-references: DDBJ:AB002561; NID:G2911149; PIDN:BAA24947.1; PID:G2911150  
C/Superfamily: fibroblast growth factor

Query Match 42.1%; Score 315; DB 2; Length 207;  
Best Local Similarity 42.4%; Pred. No. 6.1e-23;  
Matches 59; Conservative 34; Mismatches 44; Indels 2; Gaps 1;

Qy 2 YNHOGDVRWRKLFSTFKYFLKIEKNGKVGSGTKKENCPCYSILEITSVEIGVAVKAINSN 61

Db 53 FAHLKGILRRQLYCRGTGFHLEFPNGTVHGRHDSRFGLEIFSLAVGLSIRGVDSG 112

Qy 62 YLLAMNKGKLYGSKFENNCKLKERIEENGYNTYASFVWQHG--RQMYVALNGKGAPR 119

Db 113 LYLGNRGERLFGSKLTRECVFREQFENWNTYASTLYKHSDSERQYVALNKDGSRP 172

Qy 120 RGQTRKNTSAHFLPMV 138

Db 173 EGYTRKHQKFTFLPRPV 191

## RESULT 14

JC7082  
fibroblast somatotropin-20 - African clawed frog  
N/Alternate names: fibroblast growth factor-20  
C/Species: Xenopus laevis (African clawed frog)  
C/Date: 03-Dec-1999 #sequence\_revision 03-Dec-1999 #text\_change 21-Jul-2000  
C/Accession: JC7082  
R/Koga, C.; Adachi, N.; Nakata, K.; Mikoshiba, K.; Furuhashi, Y.; Sato, S.; Tei, H.; Sakak  
Biochem. Biophys. Res. Commun. 261, 756-765, 1999  
A/Title: Characterization of a novel member of the FGF family, XFGF-20, in Xenopus laevi  
A/Reference number: JC7082; MUID:99373151; PMID:10441498  
A/Accession: JC7082  
A/Molecule type: mRNA  
A/Residues: 1-208 <KOG>  
A/Cross-references: DDBJ:AB012615; NID:G5762261; PIDN:BAA83474.1; PID:G5762262  
C/Superfamily: fibroblast growth factor  
C/Keywords: differentiation; fibroblast; growth factor; heparin binding

Query Match 40.6%; Score 304; DB 2; Length 208;  
Best Local Similarity 42.0%; Pred. No. 7e-22;  
Matches 58; Conservative 35; Mismatches 43; Indels 2; Gaps 1;

Qy 3 NHHOGDVRWRKLFSTFKYFLKIEKNGKVGSGTKKENCPCYSILEITSVEIGVAVKAINSN 62

Db 55 SHLQGLRRQLYCRGTGFHLEFPNGTVHGRHDSRFGLEIFSLAVGLSIRGVDTGL 114

Qy 63 YLLAMNKGKLYGSKFENNCKLKERIEENGYNTYASFVWQHG--NGROMYVALNGKGAPR 120

Db 115 YLGWMDKGLFSGSKLTSECFIREQFENWNTYSSNLKXGDSGRYFVALNKDGTPRD 174

Qy 121 GQKTRKNTSAHFLPMV 138

Db 175 GTRAKRHQKFTFLPRPV 192

## RESULT 15

JC7353  
fibroblast growth factor-20 - human  
C/Species: Homo sapiens (man)  
C/Date: 08-Sep-2000 #sequence\_revision 08-Sep-2000 #text\_change 01-Dec-2000  
C/Accession: JC7353  
R/Kirikoshi, H.; Segara, N.; Saitoh, T.; Tanaka, K.; Sekihara, H.; Shiohara, K.; Katoh  
Biochem. Biophys. Res. Commun. 274, 337-343, 2000  
A/Title: Molecular cloning and characterization of human FGF-20 on chromosome 8p21.3-p  
A/Reference number: JC7353

A/Accession: JC7353  
A/Molecule type: mRNA  
A/Residues: 1-211 <KIR>  
A/Cross-references: DDBJ:AB044277  
C/Comment: This factor is involved in physiological and pathological processes, playin  
C/Genetics:  
A/Gene: fgf-20  
A/Map position: 8p21.3-8p22  
C/Superfamily: fibroblast growth factor  
C/Keywords: angiogenesis; carcinogenesis

Query Match 40.5%; Score 303; DB 2; Length 211;  
Best Local Similarity 42.3%; Pred. No. 8.9e-22;  
Matches 58; Conservative 33; Mismatches 44; Indels 2; Gaps 1;

Qy 4 HLOGDVRWRKLFSTFKYFLKIEKNGKVGSGTKKENCPCYSILEITSVEIGVAVKAINSNVY 63

Db 59 HLHGILRRQLYCRGTGFHLEFPNGTVHGRHDSRFGLEIFSLAVGLSIRGVDSGLY 118

Qy 64 LAMNKGKLYGSKFENNCKLKERIEENGYNTYASFVWQHG--NGROMYVALNGKGAPRRG 121

Db 119 LGMNDKGLYSGSKLTSECFIREQFENWNTYSSNIYKHGDTGRYFVALNKDGTPRDG 178

Qy 122 QKTRKNTSAHFLPMV 138

Db 179 ARSKRHQKFTFLPRPV 195

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Job time : 75 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 26, 2004, 04:44:47 ; Search time 18 Seconds  
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132.396 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208

Perfect score: 748  
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Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 148731 seqs, 17022389 residues

Total number of hits satisfying chosen parameters: 148731

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Pending Patents AA New.\*

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- 2: /cgn2\_6/ptodata/1/paa/US06\_NEW\_COMB.pep.\*
- 3: /cgn2\_6/ptodata/1/paa/US07\_NEW\_COMB.pep.\*
- 4: /cgn2\_6/ptodata/1/paa/US08\_NEW\_COMB.pep.\*
- 5: /cgn2\_6/ptodata/1/paa/US09\_NEW\_COMB.pep.\*
- 6: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*
- 7: /cgn2\_6/ptodata/1/paa/US10\_NEW\_COMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	748	100.0	208	6	US-10-775-204-468
2	748	100.0	208	6	US-10-775-204-469
3	748	100.0	208	6	US-10-775-204-497
4	748	100.0	208	6	US-10-775-204-498
5	748	100.0	208	6	US-10-775-204-499
6	748	100.0	208	6	US-10-775-204-645
7	748	100.0	208	6	US-10-775-204-646
8	748	100.0	208	6	US-10-775-204-1684
9	748	100.0	208	6	US-10-775-204-1685
10	748	100.0	208	6	US-10-775-204-1686
11	748	100.0	208	6	US-10-775-204-1692
12	748	100.0	208	6	US-10-775-204-1693
13	748	100.0	208	6	US-10-775-204-1694
14	748	100.0	208	6	US-10-775-204-1698
15	748	100.0	749	6	US-10-775-204-1516
16	748	100.0	749	6	US-10-775-204-1517
17	748	100.0	749	6	US-10-775-204-1524
18	748	100.0	749	6	US-10-775-204-1525
19	748	100.0	749	6	US-10-775-204-1526
20	748	100.0	755	6	US-10-775-204-1520
21	748	100.0	755	6	US-10-775-204-252
22	748	100.0	755	6	US-10-775-204-253
23	748	100.0	755	6	US-10-775-204-281
24	748	100.0	755	6	US-10-775-204-282
25	607.5	81.2	722	6	US-10-775-204-1530
26	600	80.2	722	6	US-10-775-204-429

Sequence 20, Appl  
Sequence 24, Appl  
Sequence 14, Appl  
Sequence 8, Appl  
Sequence 2, Appl  
Sequence 4, Appl  
Sequence 22, Appl  
Sequence 36, Appl  
Sequence 6, Appl  
Sequence 10, Appl  
Sequence 12, Appl  
Sequence 16, Appl  
Sequence 18, Appl  
Sequence 4, Appl  
Sequence 140, App  
Sequence 140, App  
Sequence 280, App  
Sequence 284, App  
Sequence 2, Appl

ALIGNMENTS

RESULT 1  
US-10-775-204-468  
; Sequence 468, Application US/10775204  
; GENERAL INFORMATION:  
; APPLICANT: Rosen, Craig A.  
; APPLICANT: Haseltine, William A.  
; APPLICANT: Turner, David J.  
; TITLE OF INVENTION: Albumin Fusion Proteins  
; FILE REFERENCE: PF564  
; CURRENT APPLICATION NUMBER: US/10/775,204  
; CURRENT FILING DATE: 2004-02-11  
; PRIOR APPLICATION NUMBER: 60/341,811  
; PRIOR FILING DATE: 2001-12-21  
; PRIOR APPLICATION NUMBER: 60/360,000  
; PRIOR FILING DATE: 2002-02-28  
; PRIOR APPLICATION NUMBER: 60/378,950  
; PRIOR FILING DATE: 2002-05-10  
; PRIOR APPLICATION NUMBER: 60/398,008  
; PRIOR FILING DATE: 2002-07-24  
; PRIOR APPLICATION NUMBER: 60/411,355  
; PRIOR FILING DATE: 2002-09-18  
; PRIOR APPLICATION NUMBER: 60/414,984  
; PRIOR FILING DATE: 2002-10-02  
; PRIOR APPLICATION NUMBER: 60/417,611  
; PRIOR FILING DATE: 2002-10-11  
; PRIOR APPLICATION NUMBER: 60/420,246  
; PRIOR FILING DATE: 2002-10-23  
; PRIOR APPLICATION NUMBER: 60/423,623  
; PRIOR FILING DATE: 2002-11-05  
; PRIOR APPLICATION NUMBER: 60/351,360  
; PRIOR FILING DATE: 2002-01-28  
; Remaining Prior Application data removed - See File Wrapper or PALM.  
; NUMBER OF SEQ ID NOS: 2222  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 468  
; LENGTH: 208  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-10-775-204-468

Query Match 100.0%; Score 748; DB 6; Length 208;  
Best Local Similarity 100.0%; Pred. No. 5.2e-71;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGVWRKLFSTFYKLNKGVSGTKKENCPSILEITTSVEIGVVAVKAINS 60  
DB 69 SYNHLQGVWRKLFSTFYKLNKGVSGTKKENCPSILEITTSVEIGVVAVKAINS 128



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QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 188

QY 121 GOKTRKNTSAHFLPMVHVS 140
Db 189 GOKTRKNTSAHFLPMVHVS 208

RESULT 2
US-10-775-204-469
; Sequence 469, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 469
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-469

Query Match 100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 60
Db 69 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 128

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 188

QY 121 GOKTRKNTSAHFLPMVHVS 140
Db 189 GOKTRKNTSAHFLPMVHVS 208

RESULT 3
US-10-775-204-497
; Sequence 497, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 469
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-469

Query Match 100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 60
Db 69 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 128

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 188

QY 121 GOKTRKNTSAHFLPMVHVS 140
Db 189 GOKTRKNTSAHFLPMVHVS 208

RESULT 4
US-10-775-204-498
; Sequence 498, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 497
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-497

Query Match 100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 60
Db 69 SYNHLQGDVRWRKLFSTFKYFLKIEKNGKVGSTKKENCYPYSILEITTSVEIGVAVKAINS 128

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR 188

QY 121 GOKTRKNTSAHFLPMVHVS 140
Db 189 GOKTRKNTSAHFLPMVHVS 208
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; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 498
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US_10-775-204-498

Query Match      100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 60
Db 69 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 128
Qy 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188
Qy 121 GQTRRKNTSAHFLPMVHVS 140
Db 189 GQTRRKNTSAHFLPMVHVS 208

RESULT 5
US-10-775-204-645
; Sequence 645, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 646
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US_10-775-204-646

Query Match      100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 60
Db 69 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 128
Qy 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188
Qy 121 GQTRRKNTSAHFLPMVHVS 140
Db 189 GQTRRKNTSAHFLPMVHVS 208
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; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-645

Query Match      100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 60
Db 69 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 128
Qy 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188
Qy 121 GQTRRKNTSAHFLPMVHVS 140
Db 189 GQTRRKNTSAHFLPMVHVS 208

RESULT 6
US-10-775-204-646
; Sequence 646, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 646
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US_10-775-204-646

Query Match      100.0%; Score 748; DB 6; Length 208;
Best Local Similarity 100.0%; Pred. No. 5.2e-71;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 60
Db 69 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVGSGTKKENCPCYSILEITSVGIVVAVKAINS 128
Qy 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120
Db 129 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 188
Qy 121 GQTRRKNTSAHFLPMVHVS 140
Db 189 GQTRRKNTSAHFLPMVHVS 208
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Db 129 NYLAMNKKGLYSGKEFNNDCKLERIEENGYNITYASFNWQHNGROMYVALNGKAPRR 188

QY 121 GQTRKNTSAHFLPMVHVS 140

Db 189 GQTRKNTSAHFLPMVHVS 208

RESULT 7

US-10-775-204-1684

Sequence 1684, Application US/10775204

GENERAL INFORMATION:

APPLICANT: Rosen, Craig A.

APPLICANT: Haseltine, William A.

APPLICANT: Balance, David J.

APPLICANT: Turner, Andrew J.

TITLE OF INVENTION: Albumin Fusion Proteins

FILE REFERENCE: PF564

CURRENT APPLICATION NUMBER: US/10/775,204

CURRENT FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/341,811

PRIOR FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: 60/360,000

PRIOR FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: 60/378,950

PRIOR FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: 60/398,008

PRIOR FILING DATE: 2002-07-24

PRIOR APPLICATION NUMBER: 60/411,355

PRIOR FILING DATE: 2002-09-18

PRIOR APPLICATION NUMBER: 60/414,984

PRIOR FILING DATE: 2002-10-02

PRIOR APPLICATION NUMBER: 60/417,611

PRIOR FILING DATE: 2002-10-11

PRIOR APPLICATION NUMBER: 60/420,246

PRIOR FILING DATE: 2002-10-23

PRIOR APPLICATION NUMBER: 60/423,623

PRIOR FILING DATE: 2002-11-05

PRIOR APPLICATION NUMBER: 60/351,360

PRIOR FILING DATE: 2002-01-28

Remaining Prior Application data removed - See File Wrapper or PALM.

NUMBER OF SEQ ID NOS: 2222

SOFTWARE: Patentin Ver. 2.0

SEQ ID NO 1684

LENGTH: 208

TYPE: PRT

ORGANISM: Homo sapiens

US-10-775-204-1684

Query Match 100.0%; Score 748; DB 6; Length 208;

Best Local Similarity 100.0%; Pred. No. 5.2e-71;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLOGDVWRKLFSTFKYFKLIEKNGKVGSTGKENCPSYILEITTSVEIGVAVKAINS 60

Db 69 SYNHLOGDVWRKLFSTFKYFKLIEKNGKVGSTGKENCPSYILEITTSVEIGVAVKAINS 128

QY 61 NYLAMNKKGLYSGKEFNNDCKLERIEENGYNITYASFNWQHNGROMYVALNGKAPRR 120

Db 129 NYLAMNKKGLYSGKEFNNDCKLERIEENGYNITYASFNWQHNGROMYVALNGKAPRR 188

QY 121 GQTRKNTSAHFLPMVHVS 140

Db 189 GQTRKNTSAHFLPMVHVS 208

RESULT 8

US-10-775-204-1685

Sequence 1685, Application US/10775204

GENERAL INFORMATION:

APPLICANT: Rosen, Craig A.

APPLICANT: Haseltine, William A.

APPLICANT: Balance, David J.

APPLICANT: Turner, Andrew J.

; TITLE OF INVENTION: Albumin Fusion Proteins

; FILE REFERENCE: PF564

; CURRENT APPLICATION NUMBER: US/10/775,204

; CURRENT FILING DATE: 2004-02-11

; PRIOR APPLICATION NUMBER: 60/341,811

; PRIOR FILING DATE: 2001-12-21

; PRIOR APPLICATION NUMBER: 60/360,000

; PRIOR FILING DATE: 2002-02-28

; PRIOR APPLICATION NUMBER: 60/378,950

; PRIOR FILING DATE: 2002-05-10

; PRIOR APPLICATION NUMBER: 60/398,008

; PRIOR FILING DATE: 2002-07-24

; PRIOR APPLICATION NUMBER: 60/411,355

; PRIOR FILING DATE: 2002-09-18

; PRIOR APPLICATION NUMBER: 60/414,984

; PRIOR FILING DATE: 2002-10-02

; PRIOR APPLICATION NUMBER: 60/417,611

; PRIOR FILING DATE: 2002-10-11

; PRIOR APPLICATION NUMBER: 60/420,246

; PRIOR FILING DATE: 2002-10-23

; PRIOR APPLICATION NUMBER: 60/423,623

; PRIOR FILING DATE: 2002-11-05

; PRIOR APPLICATION NUMBER: 60/351,360

; PRIOR FILING DATE: 2002-01-28

; Remaining Prior Application data removed - See File Wrapper or PALM.

; NUMBER OF SEQ ID NOS: 2222

; SOFTWARE: Patentin Ver. 2.0

; SEQ ID NO 1685

; LENGTH: 208

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-775-204-1685

Query Match 100.0%; Score 748; DB 6; Length 208;

Best Local Similarity 100.0%; Pred. No. 5.2e-71;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLOGDVWRKLFSTFKYFKLIEKNGKVGSTGKENCPSYILEITTSVEIGVAVKAINS 60

Db 69 SYNHLOGDVWRKLFSTFKYFKLIEKNGKVGSTGKENCPSYILEITTSVEIGVAVKAINS 128

QY 61 NYLAMNKKGLYSGKEFNNDCKLERIEENGYNITYASFNWQHNGROMYVALNGKAPRR 120

Db 129 NYLAMNKKGLYSGKEFNNDCKLERIEENGYNITYASFNWQHNGROMYVALNGKAPRR 188

QY 121 GQTRKNTSAHFLPMVHVS 140

Db 189 GQTRKNTSAHFLPMVHVS 208

RESULT 9

US-10-775-204-1688

Sequence 1688, Application US/10775204

GENERAL INFORMATION:

APPLICANT: Rosen, Craig A.

APPLICANT: Haseltine, William A.

APPLICANT: Balance, David J.

APPLICANT: Turner, Andrew J.

TITLE OF INVENTION: Albumin Fusion Proteins

FILE REFERENCE: PF564

CURRENT APPLICATION NUMBER: US/10/775,204

CURRENT FILING DATE: 2004-02-11

PRIOR APPLICATION NUMBER: 60/341,811

PRIOR FILING DATE: 2001-12-21

PRIOR APPLICATION NUMBER: 60/360,000

PRIOR FILING DATE: 2002-02-28

PRIOR APPLICATION NUMBER: 60/378,950

PRIOR FILING DATE: 2002-05-10

PRIOR APPLICATION NUMBER: 60/398,008

PRIOR FILING DATE: 2002-07-24

PRIOR APPLICATION NUMBER: 60/411,355

PRIOR FILING DATE: 2002-09-18

PRIOR APPLICATION NUMBER: 60/414,984

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; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
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; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1688
; LENGTH: 208
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-775-204-1692

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; Sequence 1692, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
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; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
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; NUMBER OF SEQ ID NOS: 2222
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; ORGANISM: Homo sapiens
US-10-775-204-1693

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US-10-775-204-1692

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DB 189 GQTRRKNTSAHFLPMVHVS 208

RESULT 11
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; Sequence 1693, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
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; PRIOR FILING DATE: 2002-10-23
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; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 1693
; LENGTH: 208
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; ORGANISM: Homo sapiens
US-10-775-204-1693

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RESULT 12
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; Sequence 1694, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
; PRIOR FILING DATE: 2002-09-18
; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
; PRIOR APPLICATION NUMBER: 60/420,246
; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
; PRIOR FILING DATE: 2002-11-05
; PRIOR APPLICATION NUMBER: 60/351,360
; PRIOR FILING DATE: 2002-01-28
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 2222
; SOFTWARE: Patentin Ver. 2.0
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; LENGTH: 208
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; ORGANISM: Homo sapiens
US-10-775-204-1694

Query Match 100.0%; Score 748; DB 6; Length 208;
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Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 189 GQTRKNTSAHFLPMVVS 208

RESULT 13
US-10-775-204-1698
; Sequence 1698, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
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; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
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; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
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; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
; PRIOR FILING DATE: 2002-10-11
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; PRIOR FILING DATE: 2002-10-23
; PRIOR APPLICATION NUMBER: 60/423,623
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; PRIOR APPLICATION NUMBER: 60/351,360
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US-10-775-204-1698

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; Sequence 1516, Application US/10775204
; GENERAL INFORMATION:
; APPLICANT: Rosen, Craig A.
; APPLICANT: Haseltine, William A.
; APPLICANT: Balance, David J.
; APPLICANT: Turner, Andrew J.
; TITLE OF INVENTION: Albumin Fusion Proteins
; FILE REFERENCE: PF564
; CURRENT APPLICATION NUMBER: US/10/775,204
; CURRENT FILING DATE: 2004-02-11
; PRIOR APPLICATION NUMBER: 60/341,811
; PRIOR FILING DATE: 2001-12-21
; PRIOR APPLICATION NUMBER: 60/360,000
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: 60/378,950
; PRIOR FILING DATE: 2002-05-10
; PRIOR APPLICATION NUMBER: 60/398,008
; PRIOR FILING DATE: 2002-07-24
; PRIOR APPLICATION NUMBER: 60/411,355
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; PRIOR APPLICATION NUMBER: 60/414,984
; PRIOR FILING DATE: 2002-10-02
; PRIOR APPLICATION NUMBER: 60/417,611
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;; PRIOR FILING DATE: 2002-10-11  
;; PRIOR APPLICATION NUMBER: 60/420,246  
;; PRIOR FILING DATE: 2002-10-23  
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;; PRIOR APPLICATION NUMBER: 60/351,360  
;; PRIOR FILING DATE: 2002-01-28  
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;; ORGANISM: Homo sapiens  
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;; Sequence 1517, Application US/10775204  
;; GENERAL INFORMATION:  
;; APPLICANT: Rosen, Craig A.  
;; APPLICANT: Haseltine, William A.  
;; APPLICANT: Balance, David J.  
;; APPLICANT: Turner, Andrew J.  
;; TITLE OF INVENTION: Albumin Fusion Proteins  
;; FILE REFERENCE: PF564  
;; CURRENT APPLICATION NUMBER: US/10775,204  
;; CURRENT FILING DATE: 2004-02-11  
;; PRIOR APPLICATION NUMBER: 60/341,811  
;; PRIOR FILING DATE: 2001-12-21  
;; PRIOR APPLICATION NUMBER: 60/360,000  
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;; PRIOR FILING DATE: 2002-09-18  
;; PRIOR APPLICATION NUMBER: 60/414,984  
;; PRIOR FILING DATE: 2002-10-02  
;; PRIOR APPLICATION NUMBER: 60/417,611  
;; PRIOR FILING DATE: 2002-10-11  
;; PRIOR APPLICATION NUMBER: 60/420,246  
;; PRIOR FILING DATE: 2002-10-23  
;; PRIOR APPLICATION NUMBER: 60/423,623  
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;; PRIOR APPLICATION NUMBER: 60/351,360  
;; PRIOR FILING DATE: 2002-01-28  
;; Remaining Prior Application data removed - See File Wrapper or PALM.  
;; NUMBER OF SEQ ID NOS: 222  
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US-10-775-204-1517

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GenCore version 5.1.6  
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Maximum Match 100%

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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ALIGNMENTS

RESULT 1  
PCT-US00-15186-17  
; Sequence 17, Application PC/TUS0015186  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; APPLICANT: Gentz, Reiner L.  
; APPLICANT: Chopra, Arvind  
; APPLICANT: Kaushtal, Parveen  
; APPLICANT: Spitznagel, Thomas  
; APPLICANT: Unsworth, Edward  
; APPLICANT: Khan, Fazal  
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
; FILE REFERENCE: 1488.103PC05  
; CURRENT APPLICATION NUMBER: PCT/US00/15186  
; PRIOR FILING DATE: 2000-06-02  
; PRIOR APPLICATION NUMBER: US 60/137,448  
; PRIOR FILING DATE: 1999-06-02  
; PRIOR APPLICATION NUMBER: US 60/160,913  
; PRIOR FILING DATE: 1999-10-22  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: Patentin Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 141

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; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US00-15186-17

Query Match
Best Local Similarity 100.0%; Score 748; DB 1; Length 141;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 60
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 61

QY 61 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 120
Db 62 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 121

QY 121 GQTRRKNTSAHFLPMVHVS 140
Db 122 GQTRRKNTSAHFLPMVHVS 141

RESULT 2
PCT-US00-15186-33
; Sequence 33, Application PC/TUS0015186
; GENERAL INFORMATION:
; APPLICANT: Human Genome Sciences, Inc.
; APPLICANT: Gentz, Reiner L.
; APPLICANT: Chopra, Arvind
; APPLICANT: Kaushal, Parveen
; APPLICANT: Spitznagel, Thomas
; APPLICANT: Unsworth, Edward
; APPLICANT: Khan, Fazal
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations
; FILE REFERENCE: 1488.103PC05
; CURRENT APPLICATION NUMBER: PCT/US00/15186
; PRIOR FILING DATE: 2000-06-02
; PRIOR APPLICATION NUMBER: US 60/137,448
; PRIOR FILING DATE: 1999-06-02
; PRIOR APPLICATION NUMBER: US 60/160,913
; PRIOR FILING DATE: 1999-10-22
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 33
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US00-15186-33

Query Match
Best Local Similarity 100.0%; Score 748; DB 1; Length 141;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 60
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 61

QY 61 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 120
Db 62 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 121

QY 121 GQTRRKNTSAHFLPMVHVS 140
Db 122 GQTRRKNTSAHFLPMVHVS 141

RESULT 3
PCT-US00-18328-96
; Sequence 96, Application PC/TUS0018328
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.036PC0K

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; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.036PC0K
; CURRENT APPLICATION NUMBER: PCT/US00/18328
; CURRENT FILING DATE: 2000-07-03
; PRIOR APPLICATION NUMBER: 60/142,343
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/143,648
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: 60/144,024
; PRIOR FILING DATE: 1999-07-15
; PRIOR APPLICATION NUMBER: 60/148,628
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/149,935
; PRIOR FILING DATE: 1999-08-19
; PRIOR APPLICATION NUMBER: 60/163,375
; PRIOR FILING DATE: 1999-11-03
; PRIOR APPLICATION NUMBER: 60/171,677
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/205,417
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: 60/198,322
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: Patent In Ver. 2.1
; SEQ ID NO 96
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US00-18328-96

Query Match
Best Local Similarity 100.0%; Score 748; DB 1; Length 141;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 60
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKENCPSYLSILTSVEIGWAVKAINS 61

QY 61 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 120
Db 62 NYILAMNKGKLYGSKFEFNDCKLKERIEENGYNITYASFNQHNGRQMYVALNGKGPARR 121

QY 121 GQTRRKNTSAHFLPMVHVS 140
Db 122 GQTRRKNTSAHFLPMVHVS 141

RESULT 4
PCT-US00-18328-112
; Sequence 112, Application PC/TUS0018328
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.036PC0K

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; CURRENT APPLICATION NUMBER: PCT/US00/18328
; CURRENT FILING DATE: 2000-07-03
; PRIOR APPLICATION NUMBER: 60/142,343
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/143,648
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: 60/144,024
; PRIOR FILING DATE: 1999-07-15
; PRIOR APPLICATION NUMBER: 60/148,628
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/149,935
; PRIOR FILING DATE: 1999-08-19
; PRIOR APPLICATION NUMBER: 60/163,375
; PRIOR FILING DATE: 1999-11-03
; PRIOR APPLICATION NUMBER: 60/171,677
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/205,417
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: 60/198,322
; PRIOR FILING DATE: 2000-04-19
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 112
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US00-18328-112

Query Match          100.0%; Score 748; DB 1; Length 141;
Best Local Similarity 100.0%; Pred. No. 1.2e-75;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVWRKLFSTTKYFLKIEKNGKVGSGTKKENCPSYILEITSVBIGVAVKAINS 60
    |||||
Db 2 SYNHLQDVWRKLFSTTKYFLKIEKNGKVGSGTKKENCPSYILEITSVBIGVAVKAINS 61
    |||||

Qy 61 NYLAVNKKGLYGSKEFNNDCKLKERIEENGYNVTYASFNWQHNGRQMYVALNGKGAPRR 120
    |||||
Db 62 NYLAVNKKGLYGSKEFNNDCKLKERIEENGYNVTYASFNWQHNGRQMYVALNGKGAPRR 121
    |||||

Qy 121 GQTRRNKNTSAHFLPMVHVS 140
    |||||
Db 122 GQTRRNKNTSAHFLPMVHVS 141
    |||||

RESULT 5
PCT-US02-00101-96
; Sequence 96, Application PC/TUS0200101
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.036FCOP
; CURRENT APPLICATION NUMBER: PCT/US02/00101
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: PCT/US95/01790
; PRIOR FILING DATE: 1995-02-14
; PRIOR APPLICATION NUMBER: 08/461,195
; PRIOR FILING DATE: 1995-06-05
; PRIOR APPLICATION NUMBER: 08/696,135
; PRIOR FILING DATE: 1996-08-13
; PRIOR APPLICATION NUMBER: 08/862,432
; PRIOR FILING DATE: 1997-05-23
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; PRIOR APPLICATION NUMBER: 60/023,852
; PRIOR FILING DATE: 1996-08-13
; PRIOR APPLICATION NUMBER: 60/039,045
; PRIOR FILING DATE: 1997-02-28
; PRIOR APPLICATION NUMBER: 60/055,561
; PRIOR FILING DATE: 1997-08-13
; PRIOR APPLICATION NUMBER: 08/910,875
; PRIOR FILING DATE: 1997-08-13
; PRIOR APPLICATION NUMBER: 09/023,082
; PRIOR FILING DATE: 1998-02-13
; PRIOR APPLICATION NUMBER: 09/345,373
; PRIOR FILING DATE: 1999-07-01
; PRIOR APPLICATION NUMBER: 60/142,343
; PRIOR FILING DATE: 1999-07-02
; PRIOR APPLICATION NUMBER: 60/143,648
; PRIOR FILING DATE: 1999-07-14
; PRIOR APPLICATION NUMBER: 60/144,024
; PRIOR FILING DATE: 1999-07-15
; PRIOR APPLICATION NUMBER: 60/148,628
; PRIOR FILING DATE: 1999-08-12
; PRIOR APPLICATION NUMBER: 60/149,935
; PRIOR FILING DATE: 1999-09-24
; PRIOR APPLICATION NUMBER: 60/163,375
; PRIOR FILING DATE: 1999-11-03
; PRIOR APPLICATION NUMBER: 60/171,677
; PRIOR FILING DATE: 1999-12-22
; PRIOR APPLICATION NUMBER: 60/205,417
; PRIOR FILING DATE: 2000-05-19
; PRIOR APPLICATION NUMBER: 60/198,322
; PRIOR FILING DATE: 2000-04-19
; PRIOR APPLICATION NUMBER: 60/259,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/286,368
; PRIOR FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: 60/331,168
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 96
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
PCT-US02-00101-96

Query Match          100.0%; Score 748; DB 1; Length 141;
Best Local Similarity 100.0%; Pred. No. 1.2e-75;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQDVWRKLFSTTKYFLKIEKNGKVGSGTKKENCPSYILEITSVBIGVAVKAINS 60
    |||||
Db 2 SYNHLQDVWRKLFSTTKYFLKIEKNGKVGSGTKKENCPSYILEITSVBIGVAVKAINS 61
    |||||

Qy 61 NYLAVNKKGLYGSKEFNNDCKLKERIEENGYNVTYASFNWQHNGRQMYVALNGKGAPRR 120
    |||||
Db 62 NYLAVNKKGLYGSKEFNNDCKLKERIEENGYNVTYASFNWQHNGRQMYVALNGKGAPRR 121
    |||||

Qy 121 GQTRRNKNTSAHFLPMVHVS 140
    |||||
Db 122 GQTRRNKNTSAHFLPMVHVS 141
    |||||

RESULT 6
PCT-US02-00101-112
; Sequence 112, Application PC/TUS0200101
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
```



APPLICANT: Coleman, Timothy A.  
APPLICANT: Gruber, Joachim R.  
APPLICANT: Dillon, Patrick J.  
APPLICANT: Gentz, Reiner L.  
TITLE OF INVENTION: Keratinocyte Growth Factor-2  
FILE REFERENCE: 1488.036PCOP  
CURRENT APPLICATION NUMBER: PCT/US02/00101  
CURRENT FILING DATE: 2002-01-04  
PRIOR APPLICATION NUMBER: PCT/US95/01790  
PRIOR FILING DATE: 1995-02-14  
PRIOR APPLICATION NUMBER: 08/461,195  
PRIOR FILING DATE: 1995-06-05  
PRIOR APPLICATION NUMBER: 08/696,135  
PRIOR FILING DATE: 1996-08-13  
PRIOR APPLICATION NUMBER: 08/862,432  
PRIOR FILING DATE: 1997-05-23  
PRIOR APPLICATION NUMBER: 60/023,852  
PRIOR FILING DATE: 1996-08-13  
PRIOR APPLICATION NUMBER: 60/039,045  
PRIOR FILING DATE: 1997-02-28  
PRIOR APPLICATION NUMBER: 60/055,561  
PRIOR FILING DATE: 1997-08-13  
PRIOR APPLICATION NUMBER: 08/910,875  
PRIOR FILING DATE: 1997-08-13  
PRIOR APPLICATION NUMBER: 09/023,082  
PRIOR FILING DATE: 1998-02-13  
PRIOR APPLICATION NUMBER: 09/345,373  
PRIOR FILING DATE: 1999-07-01  
PRIOR APPLICATION NUMBER: 60/142,343  
PRIOR FILING DATE: 1999-07-02  
PRIOR APPLICATION NUMBER: 60/143,648  
PRIOR FILING DATE: 1999-07-14  
PRIOR APPLICATION NUMBER: 60/144,024  
PRIOR FILING DATE: 1999-07-15  
PRIOR APPLICATION NUMBER: 60/148,628  
PRIOR FILING DATE: 1999-08-12  
PRIOR APPLICATION NUMBER: 60/149,935  
PRIOR FILING DATE: 1999-09-24  
PRIOR APPLICATION NUMBER: 60/163,375  
PRIOR FILING DATE: 1999-11-03  
PRIOR APPLICATION NUMBER: 60/171,677  
PRIOR FILING DATE: 1999-12-22  
PRIOR APPLICATION NUMBER: 60/205,417  
PRIOR FILING DATE: 2000-03-19  
PRIOR APPLICATION NUMBER: 60/198,322  
PRIOR FILING DATE: 2000-04-19  
PRIOR APPLICATION NUMBER: 60/259,853  
PRIOR FILING DATE: 2001-01-05  
PRIOR APPLICATION NUMBER: 60/286,368  
PRIOR FILING DATE: 2001-04-26  
PRIOR APPLICATION NUMBER: 60/331,168  
PRIOR FILING DATE: 2001-11-09  
NUMBER OF SEQ ID NOS: 176  
SOFTWARE: Patent in Ver. 2.1  
SEQ ID NO 112  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US02-00101-112

Query Match 100.0%; Score 748; DB 1; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVWRKLFSTFKYFLKIEKNGKVGSGTKKENCYPYSILEITSVGIVAVKAINS 60  
DB 2 SYNHLQGDVWRKLFSTFKYFLKIEKNGKVGSGTKKENCYPYSILEITSVGIVAVKAINS 61  
QY 61 NYLAVNNKKGKLYGSKFNNDCCKLERIEENGYNVTYASFNNQHGRCOMYVALNGKGAPRR 120  
DB 62 NYLAVNNKKGKLYGSKFNNDCCKLERIEENGYNVTYASFNNQHGRCOMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVHVS 140

DB 122 GQKTRKNTSAHFLPMVHVS 141

RESULT 7  
PCT-US98-26085-17  
Sequence 17, Application PC/TUS9826085  
GENERAL INFORMATION:  
APPLICANT: Gentz, Reiner L.  
APPLICANT: Chopra, Arvind  
APPLICANT: Kaushal, Parveen  
APPLICANT: Spitznagel, Thomas  
APPLICANT: Unsworth, Edward  
APPLICANT: Khan, Fazal  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
FILE REFERENCE: 1488.103PC01  
CURRENT APPLICATION NUMBER: PCT/US98/26085  
CURRENT FILING DATE: 1998-12-22  
EARLIER APPLICATION NUMBER: US 60/068,493  
EARLIER FILING DATE: 1997-12-22  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 17  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US98-26085-17

Query Match 100.0%; Score 748; DB 1; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVWRKLFSTFKYFLKIEKNGKVGSGTKKENCYPYSILEITSVGIVAVKAINS 60  
DB 2 SYNHLQGDVWRKLFSTFKYFLKIEKNGKVGSGTKKENCYPYSILEITSVGIVAVKAINS 61  
QY 61 NYLAVNNKKGKLYGSKFNNDCCKLERIEENGYNVTYASFNNQHGRCOMYVALNGKGAPRR 120  
DB 62 NYLAVNNKKGKLYGSKFNNDCCKLERIEENGYNVTYASFNNQHGRCOMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVHVS 140  
DB 122 GQKTRKNTSAHFLPMVHVS 141

RESULT 8  
PCT-US98-26085-33  
Sequence 33, Application PC/TUS9826085  
GENERAL INFORMATION:  
APPLICANT: Gentz, Reiner L.  
APPLICANT: Chopra, Arvind  
APPLICANT: Kaushal, Parveen  
APPLICANT: Spitznagel, Thomas  
APPLICANT: Unsworth, Edward  
APPLICANT: Khan, Fazal  
APPLICANT: Human Genome Sciences, Inc.  
TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
FILE REFERENCE: 1488.103PC01  
CURRENT APPLICATION NUMBER: PCT/US98/26085  
CURRENT FILING DATE: 1998-12-22  
EARLIER APPLICATION NUMBER: US 60/068,493  
EARLIER FILING DATE: 1997-12-22  
NUMBER OF SEQ ID NOS: 33  
SOFTWARE: Patent in Ver. 2.0  
SEQ ID NO 33  
LENGTH: 141  
TYPE: PRT  
ORGANISM: Homo sapiens  
PCT-US98-26085-33

Query Match 100.0%; Score 748; DB 1; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 60  
Db 2 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 61  
Qy 61 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 120  
Db 62 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 121  
Qy 121 GOKTRRNTSAHFLPMVWHS 140  
Db 122 GOKTRRNTSAHFLPMVWHS 141

RESULT 9  
PCT-US99-03018-96  
; Sequence 96, Application PC/TUS9903018  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; APPLICANT: Jimenez, Pablo  
; APPLICANT: Rampy, Mark A.  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Russell, Deborah  
; APPLICANT: Louie, Arthur  
; TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2  
; FILE REFERENCE: 1488.106PC02  
; CURRENT FILING DATE: 1999-02-12  
; EARLIER APPLICATION NUMBER: PCT/US99/03018  
; EARLIER FILING DATE: 1999-02-12  
; EARLIER FILING DATE: 30-DEC-1998  
; EARLIER APPLICATION NUMBER: US 60/114,387  
; EARLIER FILING DATE: 13-FEB-1998  
; NUMBER OF SEQ ID NOS: 148  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 96  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US99-03018-96

Query Match 100.0%; Score 748; DB 1; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 60  
Db 2 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 61  
Qy 61 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 120  
Db 62 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 121  
Qy 121 GOKTRRNTSAHFLPMVWHS 140  
Db 122 GOKTRRNTSAHFLPMVWHS 141

RESULT 10  
PCT-US99-03018-112  
; Sequence 112, Application PC/TUS9903018  
; GENERAL INFORMATION:  
; APPLICANT: Human Genome Sciences, Inc.  
; APPLICANT: Jimenez, Pablo  
; APPLICANT: Rampy, Mark A.  
; APPLICANT: Mendrick, Donna  
; APPLICANT: Russell, Deborah  
; APPLICANT: Louie, Arthur  
; TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2  
; FILE REFERENCE: 1488.106PC02  
; CURRENT APPLICATION NUMBER: PCT/US99/03018  
; CURRENT FILING DATE: 1999-02-12  
; EARLIER APPLICATION NUMBER: US 60/114,387

; EARLIER FILING DATE: 30-DEC-1998  
; EARLIER APPLICATION NUMBER: US 60/074,585  
; EARLIER FILING DATE: 13-FEB-1998  
; NUMBER OF SEQ ID NOS: 148  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 112  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
PCT-US99-03018-112

Query Match 100.0%; Score 748; DB 1; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
Qy 1 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 60  
Db 2 SYNHLQDVVRWRLPFTKYLKIEKNGKVGSGTKKENCPSYLSLEITSVEIGVAVKAINS 61  
Qy 61 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 120  
Db 62 NYLWANKKGLYSGKEFNNDCKLKERIEENGNTYASFNWOHNGRQMYVALNGKGAPRR 121  
Qy 121 GOKTRRNTSAHFLPMVWHS 140  
Db 122 GOKTRRNTSAHFLPMVWHS 141

RESULT 11  
US-08-910-875-96  
; Sequence 96, Application US/08910875  
; GENERAL INFORMATION:  
; APPLICANT: DUAN, ROXANNE  
; APPLICANT: RUBEN, STEVEN M.  
; APPLICANT: JIMENEZ, PABLO  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
; NUMBER OF SEQUENCES: 146  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910,875  
; FILING DATE: 13-AUG-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/023,852  
; FILING DATE: 13-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STEFFE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0360006/EKS  
; TELEPHONE: 202-371-2600  
; TELEFAX: 202-371-2540  
; INFORMATION FOR SEQ ID NO: 96:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 141 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: protein  
US-08-910-875-96

Query Match 100.0%; Score 748; DB 13; Length 141;

Best Local Similarity 100.0%; Pred. No. 1.2e-75; Mismatches 0; Indels 0; Gaps 0;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 60  
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 61  
QY 61 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 120  
Db 62 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVVS 140  
Db 122 GQKTRKNTSAHFLPMVVS 141  
RESULT 12  
US-08-910-875-112  
; Sequence 112, Application US/08910875  
; GENERAL INFORMATION:  
; APPLICANT: DUAN, ROXANNE  
; APPLICANT: RUBEN, STEVEN M.  
; APPLICANT: JIMENEZ, PABLO  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
; NUMBER OF SEQUENCES: 146  
; CORRESPONDENCE ADDRESS:  
; ADDRESSES: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent in Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/08/910.875  
; FILING DATE: 13-AUG-1997  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/023,852  
; FILING DATE: 13-AUG-1996  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STEFFE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0360006/EKS  
; TELECOMMUNICATION INFORMATION:  
; TELEPHONE: 202-371-2600  
; TELEFAX: 202-371-2540  
; INFORMATION FOR SEQ ID NO: 112:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 141 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: not relevant  
; MOLECULE TYPE: protein  
US-08-910-875-112  
Query Match 100.0%; Score 748; DB 13; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 60  
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 61  
QY 61 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 120  
Db 62 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVVS 140

Db 122 GQKTRKNTSAHFLPMVVS 141  
RESULT 13  
US-09-284-100-4  
; Sequence 4, Application US/09284100  
; GENERAL INFORMATION:  
; APPLICANT: NASHI, LINDA O.  
; APPLICANT: OSBLUND, TIMOTHY D.  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2 PRODUCTS  
; FILE REFERENCE: A-423C  
; CURRENT APPLICATION NUMBER: US/09/284,100  
; CURRENT FILING DATE: 1999-04-07  
; PRIOR APPLICATION NUMBER: US 60/028,493  
; PRIOR FILING DATE: 1996-10-15  
; PRIOR APPLICATION NUMBER: US 60/032,781  
; PRIOR FILING DATE: 1996-12-06  
; PRIOR APPLICATION NUMBER: US 60/033,046  
; PRIOR FILING DATE: 1996-12-10  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Recombinant Human  
US-09-284-100-4  
Query Match 100.0%; Score 748; DB 16; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 60  
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVGIVAVKAINS 61  
QY 61 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 120  
Db 62 NYLWLNKKGKLYGSKFNNCKLKERIEENGYNNTYASFNWOHNGROMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVVS 140  
Db 122 GQKTRKNTSAHFLPMVVS 141  
RESULT 14  
US-09-284-100A-4  
; Sequence 4, Application US/09284100A  
; GENERAL INFORMATION:  
; APPLICANT: NASHI, LINDA O.  
; APPLICANT: OSBLUND, TIMOTHY D.  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2 PRODUCTS  
; FILE REFERENCE: A-423C  
; CURRENT APPLICATION NUMBER: US/09/284,100A  
; CURRENT FILING DATE: 1999-04-07  
; PRIOR APPLICATION NUMBER: US 60/028,493  
; PRIOR FILING DATE: 1996-10-15  
; PRIOR APPLICATION NUMBER: US 60/032,781  
; PRIOR FILING DATE: 1996-12-06  
; PRIOR APPLICATION NUMBER: US 60/033,046  
; PRIOR FILING DATE: 1996-12-10  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: Patent in Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Recombinant Human  
US-09-284-100A-4  
Query Match 100.0%; Score 748; DB 16; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRKLFSTKYFLKIEKNGKVSCTKENCPCYSILEITTSVEIGVAVKAINS 60  
Db 2 SYNHLQGDVVRKLFSTKYFLKIEKNGKVSCTKENCPCYSILEITTSVEIGVAVKAINS 61  
QY 61 NYILAMNKGKLYGSKFENNDCKLKERIEENGYNVTYASFNQHNGRQMYVALNGKAPRR 120  
Db 62 NYILAMNKGKLYGSKFENNDCKLKERIEENGYNVTYASFNQHNGRQMYVALNGKAPRR 121  
QY 121 GQTRRKNTSAHFLPMVHVS 140  
Db 122 GQTRRKNTSAHFLPMVHVS 141

RESULT 15  
US-09-345-373-96  
; Sequence 96, Application US/09345373  
; GENERAL INFORMATION:  
; APPLICANT: RUBEN, STEVEN M.  
; APPLICANT: JIMENEZ, PABLO  
; APPLICANT: DUAN, D. ROXANNE  
; APPLICANT: RAMPY, MARK A.  
; APPLICANT: MENDRICK, DONNA  
; APPLICANT: ZHANG, JUN  
; APPLICANT: NI, JIAN  
; APPLICANT: MOORE, PAUL A.  
; APPLICANT: COLEMAN, TIMOTHY A.  
; APPLICANT: GRUBER, JOACHIM R.  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: GENTZ, REINER L.  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
; NUMBER OF SEQUENCES: 148  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/345,373  
; FILING DATE:  
; CLASSIFICATION:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: 09/023,082  
; FILING DATE:  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/461,195  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/023,852  
; FILING DATE: 13-AUG-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,045  
; FILING DATE: 28-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/862,432  
; FILING DATE: 23-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/910,875  
; FILING DATE: 13-AUG-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,561  
; FILING DATE: 13-AUG-1997  
; ATTORNEY/AGENT INFORMATION:  
; NAME: STERNE, ERIC K.  
; REGISTRATION NUMBER: 36,688  
; REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600  
; TELEFAX: 202-371-2540  
; INFORMATION FOR SEQ ID NO: 96:  
; SEQUENCE CHARACTERISTICS:  
; LENGTH: 141 amino acids  
; TYPE: amino acid  
; STRANDEDNESS: single  
; TOPOLOGY: Not Relevant  
; MOLECULE TYPE: protein  
US-09-345-373-96  
Query Match 100.0%; Score 748; DB 17; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.2e-75;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGDVVRKLFSTKYFLKIEKNGKVSCTKENCPCYSILEITTSVEIGVAVKAINS 60  
Db 2 SYNHLQGDVVRKLFSTKYFLKIEKNGKVSCTKENCPCYSILEITTSVEIGVAVKAINS 61  
QY 61 NYILAMNKGKLYGSKFENNDCKLKERIEENGYNVTYASFNQHNGRQMYVALNGKAPRR 120  
Db 62 NYILAMNKGKLYGSKFENNDCKLKERIEENGYNVTYASFNQHNGRQMYVALNGKAPRR 121  
QY 121 GQTRRKNTSAHFLPMVHVS 140  
Db 122 GQTRRKNTSAHFLPMVHVS 141  
Search completed: March 26, 2004, 04:57:56  
Job time : 405 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: March 26, 2004, 04:48:52 ; Search time 98 Seconds  
(without alignments)  
373.803 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208

Perfect score: 748

Sequence: 1 SYNHLQGDVWRKLFSTFKY.....GQTRKNTSAHFLPMVHS 140

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1065169 seqs, 261661801 residues

Total number of hits satisfying chosen parameters: 1065169

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database :

- Published Applications AA:\*
- 1: /cgn2\_6/ptodata/2/pubpaa/US07\_PUBCOMB.pep.\*
  - 2: /cgn2\_6/ptodata/2/pubpaa/PCT\_NEW\_PUB.pep.\*
  - 3: /cgn2\_6/ptodata/2/pubpaa/US06\_NEW\_PUB.pep.\*
  - 4: /cgn2\_6/ptodata/2/pubpaa/US06\_PUBCOMB.pep.\*
  - 5: /cgn2\_6/ptodata/2/pubpaa/US07\_NEW\_PUB.pep.\*
  - 6: /cgn2\_6/ptodata/2/pubpaa/PCTUS\_PUBCOMB.pep.\*
  - 7: /cgn2\_6/ptodata/2/pubpaa/US08\_NEW\_PUB.pep.\*
  - 8: /cgn2\_6/ptodata/2/pubpaa/US08\_PUBCOMB.pep.\*
  - 9: /cgn2\_6/ptodata/2/pubpaa/US09A\_PUBCOMB.pep.\*
  - 10: /cgn2\_6/ptodata/2/pubpaa/US09B\_PUBCOMB.pep.\*
  - 11: /cgn2\_6/ptodata/2/pubpaa/US09C\_PUBCOMB.pep.\*
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  - 18: /cgn2\_6/ptodata/2/pubpaa/US60\_PUBCOMB.pep.\*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	748	100.0	141	9	US-09-853-666-17
2	748	100.0	141	9	US-09-853-666-33
3	748	100.0	141	10	US-09-345-373-96
4	748	100.0	141	10	US-09-345-373-112
5	748	100.0	141	12	US-10-665-526-4
6	748	100.0	141	14	US-10-075-446-96
7	748	100.0	141	14	US-10-075-446-112
8	748	100.0	141	14	US-10-035-212-96
9	748	100.0	141	14	US-10-035-212-112
10	748	100.0	147	10	US-09-345-373-68
11	748	100.0	147	14	US-10-194-443-4
12	748	100.0	147	14	US-10-075-446-68
13	748	100.0	147	14	US-10-035-212-68
14	748	100.0	152	12	US-10-665-526-6
15	748	100.0	170	14	US-10-314-372-6

16	748	100.0	171	10	US-09-345-373-116	Sequence 116, Appl
17	748	100.0	171	14	US-10-075-446-116	Sequence 116, Appl
18	748	100.0	171	14	US-10-035-212-116	Sequence 116, Appl
19	748	100.0	174	10	US-09-345-373-43	Sequence 43, Appl
20	748	100.0	174	10	US-09-345-373-55	Sequence 55, Appl
21	748	100.0	174	10	US-09-345-373-66	Sequence 66, Appl
22	748	100.0	174	14	US-10-194-443-10	Sequence 10, Appl
23	748	100.0	174	14	US-10-194-443-12	Sequence 12, Appl
24	748	100.0	174	14	US-10-075-446-43	Sequence 43, Appl
25	748	100.0	174	14	US-10-075-446-55	Sequence 55, Appl
26	748	100.0	174	14	US-10-075-446-66	Sequence 66, Appl
27	748	100.0	174	14	US-10-035-212-43	Sequence 43, Appl
28	748	100.0	174	14	US-10-035-212-55	Sequence 55, Appl
29	748	100.0	174	14	US-10-035-212-66	Sequence 66, Appl
30	748	100.0	184	10	US-09-345-373-30	Sequence 30, Appl
31	748	100.0	184	14	US-10-075-446-30	Sequence 30, Appl
32	748	100.0	184	14	US-10-035-212-30	Sequence 30, Appl
33	748	100.0	195	14	US-10-314-372-4	Sequence 4, Appl
34	748	100.0	208	9	US-09-822-485-13	Sequence 13, Appl
35	748	100.0	208	9	US-09-853-666-2	Sequence 2, Appl
36	748	100.0	208	9	US-09-750-963-4	Sequence 4, Appl
37	748	100.0	208	9	US-09-425-021-20	Sequence 20, Appl
38	748	100.0	208	10	US-09-345-373-2	Sequence 2, Appl
39	748	100.0	208	10	US-09-345-373-20	Sequence 20, Appl
40	748	100.0	208	10	US-09-345-373-24	Sequence 24, Appl
41	748	100.0	208	10	US-09-345-373-39	Sequence 39, Appl
42	748	100.0	208	12	US-10-665-526-2	Sequence 2, Appl
43	748	100.0	208	14	US-10-081-347-30	Sequence 30, Appl
44	748	100.0	208	14	US-10-194-443-2	Sequence 2, Appl
45	748	100.0	208	14	US-10-194-443-8	Sequence 8, Appl

ALIGNMENTS

RESULT 1

US-09-853-666-17  
; Sequence 17, Application US/09853666  
; Patent No. US20020016295A1  
; GENERAL INFORMATION:  
; APPLICANT: Gentz, Reiner L.  
; APPLICANT: Chopra, Arvind  
; APPLICANT: Kaushal, Parveen  
; APPLICANT: Spitznagel, Thomas  
; APPLICANT: Unsworth, Edward  
; APPLICANT: Khan, Fazal  
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
; FILE REFERENCE: 1488.1030001  
; CURRENT APPLICATION NUMBER: US/09/853,666  
; CURRENT FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: 09/218,444  
; PRIOR FILING DATE: 1998-12-22  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-853-666-17

Query Match	100.0%;	Score 748;	DB 9;	Length 141;
Best Local Similarity	100.0%;	Pred. No. 1.7e-76;		
Matches 140;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;
QY	1	SYNHLQGDVWRKLFSTFKYFLKIEKNGKVSCTKKEKCPYSILEITTSVEIGVAVKAINS	60	
Db	2	SYNHLQGDVWRKLFSTFKYFLKIEKNGKVSCTKKEKCPYSILEITTSVEIGVAVKAINS	61	
QY	61	NYILANMKKGLYSGKEFNNDCKLXERIEENGYNFYASFNQHGROMYVALNGKAPRR	120	
Db	62	NYILANMKKGLYSGKEFNNDCKLXERIEENGYNFYASFNQHGROMYVALNGKAPRR	121	
QY	121	GQTRKNTSAHFLPMVHS	140	

Db 122 GQTRKNTSAHFLPMVHS 141

RESULT 2

US-09-853-666-33

/ Sequence 33, Application US/09853666

/ Patent No. US20020016295A1

/ GENERAL INFORMATION:

/ APPLICANT: Gentz, Reiner L.

/ APPLICANT: Chopra, Arvind

/ APPLICANT: Kaushal, Parveen

/ APPLICANT: Spitznagel, Thomas

/ APPLICANT: Unsworth, Edward

/ APPLICANT: Khan, Fazal

/ TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations

/ FILE REFERENCE: 1488.1030001

/ CURRENT APPLICATION NUMBER: US/09/853,666

/ CURRENT FILING DATE: 2001-05-14

/ PRIOR APPLICATION NUMBER: 09/218,444

/ PRIOR FILING DATE: 1998-12-22

/ NUMBER OF SEQ ID NOS: 33

/ SOFTWARE: Patentin Ver. 2.0

/ SEQ ID NO 33

/ LENGTH: 141

/ TYPE: PRT

/ ORGANISM: Homo sapiens

US-09-853-666-33

Query Match 100.0%; Score 748; DB 9; Length 141;

Best Local Similarity 100.0%; Pred. No. 1.7e-76;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVELGVVAVKAINS 60

Db 2 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVELGVVAVKAINS 61

Qy 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGNYNTYASFNQHNGRMVYVALNGKGA 120

Db 62 NYILAMNKKGLYSGKEFNNDCKLKERIEENGNYNTYASFNQHNGRMVYVALNGKGA 121

Qy 121 GQTRKNTSAHFLPMVHS 140

Db 122 GQTRKNTSAHFLPMVHS 141

RESULT 3

US-09-345-373-96

/ Sequence 96, Application US/09345373

/ Publication No. US20030077695A1

/ GENERAL INFORMATION:

/ APPLICANT: RUBEN, STEVEN M.

/ APPLICANT: JIMENEZ, PABLO

/ APPLICANT: DUAN, D. ROXANNE

/ APPLICANT: RAMPY, MARK A.

/ APPLICANT: MENDRICK, DONNA

/ APPLICANT: ZHANG, JUN

/ APPLICANT: NI, JIAN

/ APPLICANT: MOORE, PAUL A.

/ APPLICANT: COLEMAN, TIMOTHY A.

/ APPLICANT: GRUBER, JOACHIM R.

/ APPLICANT: DILLON, PATRICK J.

/ APPLICANT: GENTZ, REINER L.

/ TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2

/ NUMBER OF SEQUENCES: 148

/ CORRESPONDENCE ADDRESS:

/ ADDRESSEE: STERN, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

/ STREET: 1100 NEW YORK AVE, NW, SUITE 600

/ CITY: WASHINGTON

/ STATE: DC

/ COUNTRY: USA

/ ZIP: 20005-3934

/ COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: Patentin Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/345,373  
FILING DATE:

CLASSIFICATION:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: 09/023,082

FILING DATE:

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/461,195

FILING DATE: 05-JUN-1995

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/023,852

FILING DATE: 13-AUG-1996

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/039,045

FILING DATE: 28-FEB-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/862,432

FILING DATE: 23-MAY-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 08/910,875

FILING DATE: 13-AUG-1997

PRIOR APPLICATION DATA:

APPLICATION NUMBER: US 60/055,561

FILING DATE: 13-AUG-1997

ATTORNEY/AGENT INFORMATION:

NAME: STEFFEE, ERIC K.

REGISTRATION NUMBER: 36,688

REFERENCE/DOCKET NUMBER: 1488.0360008/EKS

TELECOMMUNICATION INFORMATION:

TELEPHONE: 202-371-2600

TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 96:

SEQUENCE CHARACTERISTICS:

LENGTH: 141 amino acids

TYPE: amino acid

STRANDEDNESS: single

TOPOLOGY: No. US20030077695A1 Relevant

MOLECULE TYPE: protein

US-09-345-373-96

Query Match 100.0%; Score 748; DB 10; Length 141;

Best Local Similarity 100.0%; Pred. No. 1.7e-76;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVELGVVAVKAINS 60

Db 2 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVELGVVAVKAINS 61

Qy 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGNYNTYASFNQHNGRMVYVALNGKGA 120

Db 62 NYILAMNKKGLYSGKEFNNDCKLKERIEENGNYNTYASFNQHNGRMVYVALNGKGA 121

Qy 121 GQTRKNTSAHFLPMVHS 140

Db 122 GQTRKNTSAHFLPMVHS 141

RESULT 4

US-09-345-373-112

/ Sequence 112, Application US/09345373

/ Publication No. US20030077695A1

/ GENERAL INFORMATION:

/ APPLICANT: RUBEN, STEVEN M.

/ APPLICANT: JIMENEZ, PABLO

/ APPLICANT: DUAN, D. ROXANNE

/ APPLICANT: RAMPY, MARK A.

/ APPLICANT: MENDRICK, DONNA

/ APPLICANT: ZHANG, JUN

APPLICANT: NI, JIAN  
APPLICANT: MOORE, PAUL A.  
APPLICANT: COLEMAN, TIMOTHY A.  
APPLICANT: GRUBER, JOACHIM R.  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: GENTZ, REINER L.  
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
NUMBER OF SEQUENCES: 148  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVE, NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: USA  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/345,373  
FILING DATE:  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 09/023,082  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/461,195  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/023,852  
FILING DATE: 13-AUG-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,045  
FILING DATE: 28-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/862,432  
FILING DATE: 23-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/055,561  
FILING DATE: 13-AUG-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFEE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 112:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: No. US20030077695A1 Relevant  
MOLECULE TYPE: protein  
US-09-345-373-112

Query Match 100.0%; Score 748; DB 10; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.7e-76;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGVWRKLFSTFKYFLKIKNGKVGSTKENCPSYLSLEITSVEIGVAVKAINS 60  
DB 2 SYNHLQGVWRKLFSTFKYFLKIKNGKVGSTKENCPSYLSLEITSVEIGVAVKAINS 61  
61 NYILANMKKGLYGSKEFNNDCKLERIEBNGYNTYASFNWHNGRMVVALNGKAPRR 120  
62 NYILANMKKGLYGSKEFNNDCKLERIEBNGYNTYASFNWHNGRMVVALNGKAPRR 121

QY 121 GQKTRKNTSAHFLPMVHVS 140  
DB 122 GQKTRKNTSAHFLPMVHVS 141  
RESULT 5  
US-10-665-526-4  
; Sequence 4, Application US/10665526  
; Publication No. US2004004324A1  
; GENERAL INFORMATION:  
; APPLICANT: Narni, Linda O.  
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Products  
; FILE REFERENCE: 02-274-A  
; CURRENT APPLICATION NUMBER: US/10/665,526  
; CURRENT FILING DATE: 2003-09-19  
; PRIOR APPLICATION NUMBER: 09/284,100  
; PRIOR FILING DATE: 1999-04-07  
; PRIOR APPLICATION NUMBER: PCT US/97/18607  
; PRIOR FILING DATE: 1997-10-15  
; PRIOR APPLICATION NUMBER: US 60/033,046  
; PRIOR FILING DATE: 1996-12-10  
; PRIOR APPLICATION NUMBER: US 60/032,781  
; PRIOR FILING DATE: 1996-12-06  
; PRIOR APPLICATION NUMBER: US 60/028,493  
; PRIOR FILING DATE: 1996-10-15  
; NUMBER OF SEQ ID NOS: 63  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 4  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Recombinant Human  
US-10-665-526-4

Query Match 100.0%; Score 748; DB 12; Length 141;  
Best Local Similarity 100.0%; Pred. No. 1.7e-76;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGVWRKLFSTFKYFLKIKNGKVGSTKENCPSYLSLEITSVEIGVAVKAINS 60  
DB 2 SYNHLQGVWRKLFSTFKYFLKIKNGKVGSTKENCPSYLSLEITSVEIGVAVKAINS 61  
QY 61 NYILANMKKGLYGSKEFNNDCKLERIEBNGYNTYASFNWHNGRMVVALNGKAPRR 120  
DB 62 NYILANMKKGLYGSKEFNNDCKLERIEBNGYNTYASFNWHNGRMVVALNGKAPRR 121  
QY 121 GQKTRKNTSAHFLPMVHVS 140  
DB 122 GQKTRKNTSAHFLPMVHVS 141

RESULT 6  
US-10-075-446-96  
; Sequence 96, Application US/10075446  
; Publication No. US20030129687A1  
; GENERAL INFORMATION:  
; APPLICANT: RUBEN, STEVEN M.  
; JIMENEZ, PABLO  
; DUAN, D. ROXANNE  
; RAMPY, MARK A.  
; MENDRICK, DONNA  
; ZHANG, JUN  
; NI, JIAN  
; MOORE, PAUL A.  
; COLEMAN, TIMOTHY A.  
; GRUBER, JOACHIM R.  
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
NUMBER OF SEQUENCES: 148  
CORRESPONDENCE ADDRESS:  
ADDRESSES: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVE, NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC

COUNTRY: USA  
 ZIP: 20005-3934  
 COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/075,446  
 FILING DATE: 15-Feb-2002  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/023,082  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: PCT/US95/01790  
 FILING DATE: 14-FEB-1995  
 APPLICATION NUMBER: US 08/461,195  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 60/023,852  
 FILING DATE: 13-AUG-1996  
 APPLICATION NUMBER: US 60/039,045  
 FILING DATE: 28-FEB-1997  
 APPLICATION NUMBER: US 08/862,432  
 FILING DATE: 23-MAY-1997  
 APPLICATION NUMBER: US 08/910,875  
 FILING DATE: 13-AUG-1997  
 APPLICATION NUMBER: US 60/055,561  
 FILING DATE: 13-AUG-1997

ATTORNEY/AGENT INFORMATION:  
 NAME: STEFFEE, ERIC K.  
 REGISTRATION NUMBER: 36,688  
 REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-371-2600  
 TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 96:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 141 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: No. US20030129687A1 Relevant  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 96:

US-10-075-446-96

Query Match	100.0%;	Score 748;	DB 14;	Length 141;
Best Local Similarity	100.0%;	Pred. No. 1.7e-76;		
Matches 140;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPCYSILEITSVGIVAVKAINS 60  
 DB 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPCYSILEITSVGIVAVKAINS 61  
 QY 61 NYLLAMNKKGLYSGKEFNNDCKLERIEENGYNNTYASFNWQHNGRMVYALNGKGPAPR 120  
 DB 62 NYLLAMNKKGLYSGKEFNNDCKLERIEENGYNNTYASFNWQHNGRMVYALNGKGPAPR 121  
 QY 121 GQTRRKNTSAHFLPMVVS 140  
 DB 122 GQTRRKNTSAHFLPMVVS 141

RESULT 7  
 US-10-075-446-112  
 Sequence 112, Application US/10075446  
 Publication No. US20030129687A1  
 GENERAL INFORMATION:  
 APPLICANT: RUBEN, STEVEN M.  
 JIMENEZ, PABLO  
 DUAN, D. ROXANNE  
 RAMPY, MARK A.  
 MENDRICK, DONNA  
 ZHANG, JUN

NI, JIAN  
 MOORE, PAUL A.  
 COLEMAN, TIMOTHY A.  
 GRUBER, JOACHIM R.  
 TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
 NUMBER OF SEQUENCES: 148  
 CORRESPONDENCE ADDRESS:  
 ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
 STREET: 1100 NEW YORK AVE, NW, SUITE 600  
 CITY: WASHINGTON  
 STATE: DC  
 COUNTRY: USA  
 ZIP: 20005-3934

COMPUTER READABLE FORM:  
 MEDIUM TYPE: Floppy disk  
 COMPUTER: IBM PC compatible  
 OPERATING SYSTEM: PC-DOS/MS-DOS  
 SOFTWARE: Patent in Release #1.0, Version #1.30  
 CURRENT APPLICATION DATA:  
 APPLICATION NUMBER: US/10/075,446  
 FILING DATE: 15-Feb-2002  
 CLASSIFICATION: <Unknown>

PRIOR APPLICATION DATA:  
 APPLICATION NUMBER: 09/023,082  
 FILING DATE: <Unknown>  
 APPLICATION NUMBER: PCT/US95/01790  
 FILING DATE: 14-FEB-1995  
 APPLICATION NUMBER: US 08/461,195  
 FILING DATE: 05-JUN-1995  
 APPLICATION NUMBER: US 60/023,852  
 FILING DATE: 13-AUG-1996  
 APPLICATION NUMBER: US 60/039,045  
 FILING DATE: 28-FEB-1997  
 APPLICATION NUMBER: US 08/862,432  
 FILING DATE: 23-MAY-1997  
 APPLICATION NUMBER: US 08/910,875  
 FILING DATE: 13-AUG-1997  
 APPLICATION NUMBER: US 60/055,561  
 FILING DATE: 13-AUG-1997

ATTORNEY/AGENT INFORMATION:  
 NAME: STEFFEE, ERIC K.  
 REGISTRATION NUMBER: 36,688  
 REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
 TELECOMMUNICATION INFORMATION:  
 TELEPHONE: 202-371-2600  
 TELEFAX: 202-371-2540

INFORMATION FOR SEQ ID NO: 112:  
 SEQUENCE CHARACTERISTICS:  
 LENGTH: 141 amino acids  
 TYPE: amino acid  
 STRANDEDNESS: single  
 TOPOLOGY: No. US20030129687A1 Relevant  
 MOLECULE TYPE: protein  
 SEQUENCE DESCRIPTION: SEQ ID NO: 112:  
 US-10-075-446-112

Query Match	100.0%;	Score 748;	DB 14;	Length 141;
Best Local Similarity	100.0%;	Pred. No. 1.7e-76;		
Matches 140;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPCYSILEITSVGIVAVKAINS 60  
 DB 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVSQTKKENCPCYSILEITSVGIVAVKAINS 61  
 QY 61 NYLLAMNKKGLYSGKEFNNDCKLERIEENGYNNTYASFNWQHNGRMVYALNGKGPAPR 120  
 DB 62 NYLLAMNKKGLYSGKEFNNDCKLERIEENGYNNTYASFNWQHNGRMVYALNGKGPAPR 121  
 QY 121 GQTRRKNTSAHFLPMVVS 140  
 DB 122 GQTRRKNTSAHFLPMVVS 141



```
RESULT 8
US-10-035-212-96
; Sequence 96, Application US/10035212
; Publication No. US20030186904A1
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.0360000
; CURRENT APPLICATION NUMBER: US/10/035,212
; CURRENT FILING DATE: 2002-01-04
; PRIOR APPLICATION NUMBER: 60/259,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/286,368
; PRIOR FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: 60/331,168
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 96
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-035-212-96

Query Match 100.0%; Score 748; DB 14; Length 141;
Best Local Similarity 100.0%; Pred. No. 1.7e-76;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGVVRKLPSTKTKFLKIEKNGKVSCTKCKENCPSYLSILEITSVIGVAVKAINS 60
DB 2 SYNHLQGVVRKLPSTKTKFLKIEKNGKVSCTKCKENCPSYLSILEITSVIGVAVKAINS 61
QY 61 NYLAMNKKGLYGSKEFNNDCKLKERIEBNGYNTYASFNQHNGQMYVALNGKAPRR 120
DB 62 NYLAMNKKGLYGSKEFNNDCKLKERIEBNGYNTYASFNQHNGQMYVALNGKAPRR 121
QY 121 GQTRRNKNTSAHFLPMVVS 140
DB 122 GQTRRNKNTSAHFLPMVVS 141

RESULT 9
US-10-035-212-96
; Sequence 112, Application US/10035212
; Publication No. US20030186904A1
; GENERAL INFORMATION:
; APPLICANT: Ruben, Steven M.
; APPLICANT: Jimenez, Pablo
; APPLICANT: Duan, D. Roxanne
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Zhang, Jun
; APPLICANT: Ni, Jian
; APPLICANT: Moore, Paul A.
; APPLICANT: Coleman, Timothy A.
; APPLICANT: Gruber, Joachim R.
; APPLICANT: Dillon, Patrick J.
; APPLICANT: Gentz, Reiner L.
; TITLE OF INVENTION: Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.0360000
; CURRENT APPLICATION NUMBER: US/10/035,212
; CURRENT FILING DATE: 2002-01-04
```

```
; PRIOR APPLICATION NUMBER: 60/259,853
; PRIOR FILING DATE: 2001-01-05
; PRIOR APPLICATION NUMBER: 60/286,368
; PRIOR FILING DATE: 2001-04-26
; PRIOR APPLICATION NUMBER: 60/331,168
; PRIOR FILING DATE: 2001-11-09
; NUMBER OF SEQ ID NOS: 176
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 112
; LENGTH: 141
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-035-212-112

Query Match 100.0%; Score 748; DB 14; Length 141;
Best Local Similarity 100.0%; Pred. No. 1.7e-76;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGVVRKLPSTKTKFLKIEKNGKVSCTKCKENCPSYLSILEITSVIGVAVKAINS 60
DB 2 SYNHLQGVVRKLPSTKTKFLKIEKNGKVSCTKCKENCPSYLSILEITSVIGVAVKAINS 61
QY 61 NYLAMNKKGLYGSKEFNNDCKLKERIEBNGYNTYASFNQHNGQMYVALNGKAPRR 120
DB 62 NYLAMNKKGLYGSKEFNNDCKLKERIEBNGYNTYASFNQHNGQMYVALNGKAPRR 121
QY 121 GQTRRNKNTSAHFLPMVVS 140
DB 122 GQTRRNKNTSAHFLPMVVS 141

RESULT 10
US-09-345-373-68
; Sequence 68, Application US/09345373
; Publication No. US20030077695A1
; GENERAL INFORMATION:
; APPLICANT: RUBEN, STEVEN M.
; APPLICANT: JIMENEZ, PABLO
; APPLICANT: DUAN, D. ROXANNE
; APPLICANT: RAMPY, MARK A.
; APPLICANT: MENDRICK, DONNA
; APPLICANT: ZHANG, JUN
; APPLICANT: NI, JIAN
; APPLICANT: MOORE, PAUL A.
; APPLICANT: COLEMAN, TIMOTHY A.
; APPLICANT: GRUBER, JOACHIM R.
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: GENTZ, REINER L.
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVE, NW, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/345,373
; FILING DATE:
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 09/023,082
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/461,195
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
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Query Match      100.0%; Score 748; DB 14; Length 147;
Best Local Similarity 100.0%; Pred. No. 1.8e-76;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY      1 SYNHLOGDVRVRKULSFSTKPKFLKTIKRNKGVSGPKKNCPSYLEITSTVEIGVAVKAINS 60

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Db 8 SYNHLOGDVWRKLFSTKFLAKXGKSGTKKNCPSILSITSVGIGVAVKAINS 67  
 Qy 61 NYLWANNKGLYSGKSFNNDCKLKERIEBNGYNTYASFNWQNGRQMYVALNGKGAPE 120  
 Db 68 NYLWANNKGLYSGKSFNNDCKLKERIEBNGYNTYASFNWQNGRQMYVALNGKGAPE 127  
 Qy 121 GOKTERKNTSAHFPLPMVHS 140  
 Db 128 GOKTERKNTSAHFPLPMVHS 147  
 RESULT 12  
 US-10-075-446-68  
 ; Sequence 68, Application US/10075446  
 ; Publication No. US20030129687A1  
 ; GENERAL INFORMATION:  
 ; APPLICANT: RUBEN, STEVEN M.  
 ; JIMENEZ, PABLO  
 ; DUAN, D. ROXANNE  
 ; RAMPY, MARK A.  
 ; MENDRICK, DONNA  
 ; ZHANG, JUN  
 ; NI, JIAN  
 ; MOORE, PAUL A.  
 ; COLEMAN, TIMOTHY A.  
 ; GRUBER, JOACHIM R.  
 ; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
 ; NUMBER OF SEQUENCES: 148  
 ; CORRESPONDENCE ADDRESS:  
 ; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
 ; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
 ; CITY: WASHINGTON  
 ; STATE: DC  
 ; COUNTRY: USA  
 ; ZIP: 20005-3934  
 ; COMPUTER READABLE FORM:  
 ; MEDIUM TYPE: Floppy disk  
 ; COMPUTER: IBM PC compatible  
 ; OPERATING SYSTEM: PC-DOS/MS-DOS  
 ; SOFTWARE: Patent In Release #1.0, Version #1.30  
 ; CURRENT APPLICATION DATA:  
 ; APPLICATION NUMBER: US/10/075,446  
 ; FILING DATE: 15-Feb-2002  
 ; CLASSIFICATION: <Unknown>  
 ; PRIOR APPLICATION DATA:  
 ; APPLICATION NUMBER: 09/023,082  
 ; FILING DATE: <Unknown>  
 ; APPLICATION NUMBER: PCT/US95/01790  
 ; FILING DATE: 14-FEB-1995  
 ; APPLICATION NUMBER: US 08/461,195  
 ; FILING DATE: 05-JUN-1995  
 ; APPLICATION NUMBER: US 60/023,852  
 ; FILING DATE: 13-AUG-1996  
 ; APPLICATION NUMBER: US 60/039,045  
 ; FILING DATE: 28-FEB-1997  
 ; APPLICATION NUMBER: US 08/862,432  
 ; FILING DATE: 23-MAY-1997  
 ; APPLICATION NUMBER: US 08/910,875  
 ; FILING DATE: 13-AUG-1997  
 ; APPLICATION NUMBER: US 60/055,561  
 ; FILING DATE: 13-AUG-1997  
 ; ATTORNEY/AGENT INFORMATION:  
 ; NAME: STEFFKE, ERIC K.  
 ; REGISTRATION NUMBER: 36,688  
 ; REFERENCE/POCKET NUMBER: 1488.0360008/EKS  
 ; TELECOMMUNICATION INFORMATION:  
 ; TELEPHONE: 202-371-2600  
 ; TELEFAX: 202-371-2540  
 ; INFORMATION FOR SEQ ID NO: 68:  
 ; SEQUENCE CHARACTERISTICS:  
 ; LENGTH: 147 amino acids  
 ; TYPE: amino acid

TOPOLOGY: linear  
MOLECULE TYPE: protein  
SEQUENCE DESCRIPTION: SEQ ID NO: 68:  
US-10-075-446-68

Query Match 100.0%; Score 748; DB 14; Length 147;  
Best Local Similarity 100.0%; Pred. No. 1.8e-76;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 60

DB 8 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 67

QY 61 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 120

DB 68 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 127

QY 121 GQTRRKNTSAHFLPMVVS 140

DB 128 GQTRRKNTSAHFLPMVVS 147

## RESULT 13

US-10-035-212-68

; Sequence 68, Application US/10035212

; Publication No. US20030186904A1

; GENERAL INFORMATION:

; APPLICANT: Ruben, Steven M.

; APPLICANT: Jimenez, Pablo

; APPLICANT: Duan, D. Roxanne

; APPLICANT: Rampy, Mark A.

; APPLICANT: Mendrick, Donna

; APPLICANT: Zhang, Jun

; APPLICANT: Ni, Jian

; APPLICANT: Moore, Paul A.

; APPLICANT: Coleman, Timothy A.

; APPLICANT: Gruber, Joachim R.

; APPLICANT: Dillon, Patrick J.

; APPLICANT: Gentz, Reiner L.

; TITLE OF INVENTION: Keratinocyte Growth Factor-2

; FILE REFERENCE: 1488.0360000

; CURRENT APPLICATION NUMBER: US/10/035,212

; CURRENT FILING DATE: 2002-01-04

; PRIOR APPLICATION NUMBER: 60/259,853

; PRIOR FILING DATE: 2001-01-05

; PRIOR APPLICATION NUMBER: 60/286,368

; PRIOR FILING DATE: 2001-04-26

; PRIOR APPLICATION NUMBER: 60/331,168

; PRIOR FILING DATE: 2001-11-09

; NUMBER OF SEQ ID NOS: 176

; SOFTWARE: PatentIn Ver. 2.1

; SEQ ID NO 68

; LENGTH: 147

; TYPE: PRT

; ORGANISM: Homo sapiens

US-10-035-212-68

Query Match 100.0%; Score 748; DB 14; Length 147;  
Best Local Similarity 100.0%; Pred. No. 1.8e-76;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 60

DB 8 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 67

QY 61 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 120

DB 68 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 127

121 GQTRRKNTSAHFLPMVVS 140

128 GQTRRKNTSAHFLPMVVS 147

## RESULT 14

US-10-665-526-6

; Sequence 6, Application US/10665526

; Publication No. US20040043924A1

; GENERAL INFORMATION:

; APPLICANT: Narni, Linda O.

; APPLICANT: Oslund, Timothy D.

; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Products

; FILE REFERENCE: 02-274-A

; CURRENT APPLICATION NUMBER: US/10/665,526

; CURRENT FILING DATE: 2003-09-19

; PRIOR APPLICATION NUMBER: 09/284,100

; PRIOR FILING DATE: 1999-04-07

; PRIOR APPLICATION NUMBER: PCT US/97/18607

; PRIOR FILING DATE: 1997-10-15

; PRIOR APPLICATION NUMBER: US 60/033,046

; PRIOR FILING DATE: 1996-12-10

; PRIOR APPLICATION NUMBER: US 60/032,781

; PRIOR FILING DATE: 1996-12-06

; PRIOR APPLICATION NUMBER: US 60/028,493

; PRIOR FILING DATE: 1996-10-15

; NUMBER OF SEQ ID NOS: 63

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 6

; LENGTH: 152

; TYPE: PRT

; ORGANISM: Recombinant Human

US-10-665-526-6

Query Match 100.0%; Score 748; DB 12; Length 152;  
Best Local Similarity 100.0%; Pred. No. 1.8e-76;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 60

DB 13 SYNHLQDVRWRKLFSTKTKYFLKIEKNGKVSCTKENCPSYILEITSVIGVAVKAINS 72

QY 61 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 120

DB 73 NYILAMNKKGLYSGKFNDCKLKERIEENGNTYASFNWQNGRMVVALNGKAPRR 132

QY 121 GQTRRKNTSAHFLPMVVS 140

DB 133 GQTRRKNTSAHFLPMVVS 152

## RESULT 15

US-10-314-372-6

; Sequence 6, Application US/10314372

; Publication No. US20030144202A1

; GENERAL INFORMATION:

; APPLICANT: Lacey, David L.

; APPLICANT: Ulrich, Thomas R.

; APPLICANT: Danilenko, Dmitry M.

; APPLICANT: Farrell, Catherine L.

; TITLE OF INVENTION: USES OF KERATINOCYTE GROWTH FACTOR-2

; FILE REFERENCE: A-422C

; CURRENT APPLICATION NUMBER: US/10/314,372

; CURRENT FILING DATE: 2002-12-05

; PRIOR APPLICATION NUMBER: US/09/284,101

; PRIOR FILING DATE: 1997-10-15

; PRIOR APPLICATION NUMBER: 60/028,495

; PRIOR FILING DATE: 1996-10-15

; PRIOR APPLICATION NUMBER: 60/032,253

; PRIOR FILING DATE: 1996-12-06

; PRIOR APPLICATION NUMBER: 60/033,457

; PRIOR FILING DATE: 1996-12-10

; NUMBER OF SEQ ID NOS: 16

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 6

; LENGTH: 170

; TYPE: PRT

ORGANISM: Recombinant Human  
US-10-314-372-6

Query Match	100.0%	Score 748;	DB 14;	Length 170;
Best Local Similarity	100.0%	Pred. No. 2.1e-76;		
Matches 140;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

  

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Db	31	SYNHLQGDVVRWKLFSPFTKYFLKIEKNGKVSGTKKENCPCYSILEITSVEIGVAVKAINS	90
QY	61	NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR	120
Db	91	NYILAMNKKGLYGSKEFNNDCKLKERIEENGYNITYASFNWQHNGROMYVALNGKGAPRR	150
QY	121	GKTRRKNTSAHFLPMVVS	140
Db	151	GKTRRKNTSAHFLPMVVS	170

Search completed: March 26, 2004, 05:00:02  
Job time : 100 secs

GenCore version 5.1.6  
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: March 26, 2004, 04:38:57 ; Search time 33 Seconds  
(without alignments)  
219.019 Million cell updates/sec

Title: US-10-035-212-2\_COPY\_69\_208  
Perfect score: 748  
Sequence: 1 SYNHLQGVWRKLFSTKY.....GQTRKNTSAHFLPMVHS 140

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued patents AA:\*  
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5: /cgn2\_6/ptodata/2/iaa/PTUS\_COMB.pep.\*  
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	748	100.0	141	3	US-09-023-082A-96
2	748	100.0	141	3	US-09-023-082A-112
3	748	100.0	141	3	US-09-218-444-17
4	748	100.0	141	3	US-09-218-444-33
5	748	100.0	141	4	US-09-248-998-96
6	748	100.0	141	4	US-09-248-998-112
7	748	100.0	141	4	US-09-853-666-17
8	748	100.0	141	4	US-09-853-666-33
9	748	100.0	147	3	US-09-023-082A-68
10	748	100.0	147	4	US-09-248-998-68
11	748	100.0	171	3	US-09-023-082A-116
12	748	100.0	171	4	US-09-248-998-116
13	748	100.0	174	3	US-09-023-082A-43
14	748	100.0	174	3	US-09-023-082A-55
15	748	100.0	174	3	US-09-023-082A-66
16	748	100.0	174	4	US-09-248-998-43
17	748	100.0	174	4	US-09-248-998-55
18	748	100.0	174	4	US-09-248-998-66
19	748	100.0	184	3	US-09-023-082A-30
20	748	100.0	184	4	US-09-248-998-30
21	748	100.0	208	1	US-08-462-169B-20
22	748	100.0	208	2	US-08-951-822-30
23	748	100.0	208	3	US-09-103-079-20
24	748	100.0	208	3	US-09-023-082A-2
25	748	100.0	208	3	US-09-023-082A-20
26	748	100.0	208	3	US-09-023-082A-24
27	748	100.0	208	3	US-09-023-082A-39

28	748	100.0	208	3	US-09-218-444-2	Sequence 2, Appli
29	748	100.0	208	4	US-09-368-951-30	Sequence 30, Appl
30	748	100.0	208	4	US-09-425-021-20	Sequence 20, Appl
31	748	100.0	208	4	US-09-229-947-30	Sequence 30, Appl
32	748	100.0	208	4	US-09-564-829-14	Sequence 14, Appl
33	748	100.0	208	4	US-09-248-998-2	Sequence 2, Appli
34	748	100.0	208	4	US-09-248-998-20	Sequence 20, Appl
35	748	100.0	208	4	US-09-248-998-24	Sequence 24, Appl
36	748	100.0	208	4	US-09-248-998-39	Sequence 39, Appl
37	748	100.0	208	4	US-09-853-666-2	Sequence 2, Appli
38	744	99.5	141	3	US-09-023-082A-124	Sequence 124, App
39	744	99.5	141	3	US-09-023-082A-128	Sequence 128, App
40	744	99.5	141	3	US-09-023-082A-132	Sequence 132, App
41	744	99.5	141	3	US-09-023-082A-140	Sequence 140, App
42	744	99.5	141	3	US-09-023-082A-146	Sequence 146, App
43	744	99.5	141	4	US-09-248-998-124	Sequence 124, App
44	744	99.5	141	4	US-09-248-998-128	Sequence 128, App
45	744	99.5	141	4	US-09-248-998-132	Sequence 132, App

ALIGNMENTS

RESULT 1  
US-09-023-082A-96  
; Sequence 96, Application US/09023082A  
; Patent No. 6077692  
; GENERAL INFORMATION:  
; APPLICANT: RUBEN, STEVEN M.  
; APPLICANT: JIMENEZ, PABLO  
; APPLICANT: DUAN, D. ROXANNE  
; APPLICANT: RAMPY, MARK A.  
; APPLICANT: MENDRICK, DONNA  
; APPLICANT: ZHANG, JUN  
; APPLICANT: NI, JIAN  
; APPLICANT: MOORE, PAUL A.  
; APPLICANT: COLEMAN, TIMOTHY A.  
; APPLICANT: GRUBER, JOACHIM R.  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: GENTZ, REINER L.  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
; NUMBER OF SEQUENCES: 148  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: Patent In Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,082A  
; FILING DATE: 13-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/01790  
; FILING DATE: 14-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/461,195  
; FILING DATE: 05-JUN-1995  
; APPLICATION NUMBER: US 60/023,852  
; FILING DATE: 13-AUG-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,045  
; FILING DATE: 28-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/862,432  
; FILING DATE: 23-MAY-1997

PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/910,875  
FILING DATE: 13-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/055,561  
FILING DATE: 13-AUG-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 96:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
US-09-023-082A-96

Query Match 100.0%; Score 748; DB 3; Length 141;  
Best Local Similarity 100.0%; Pred. No. 4.4e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKNCPYSILEITSVIGWVAVKAINS 60  
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKNCPYSILEITSVIGWVAVKAINS 61  
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFNQHNQNGRQMYVALNGKGAPRR 120  
Db 62 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFNQHNQNGRQMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVHVS 140  
Db 122 GQKTRKNTSAHFLPMVHVS 141

RESULT 2  
US-09-023-082A-112  
Sequence 112, Application US/09023082A  
Patent No. 6077692  
GENERAL INFORMATION:  
APPLICANT: RUBEN, STEVEN M.  
APPLICANT: JIMENEZ, PABLO  
APPLICANT: DUAN, D. ROXANNE  
APPLICANT: RAMPY, MARK A.  
APPLICANT: MENDRICK, DONNA  
APPLICANT: ZHANG, JUN  
APPLICANT: NI, JIAN  
APPLICANT: MOORE, PAUL A.  
APPLICANT: COLEMAN, TIMOTHY A.  
APPLICANT: GRUBER, JOACHIM R.  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: GENTZ, REINER L.  
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
NUMBER OF SEQUENCES: 148  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNER, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVE, NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: USA  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023.082A  
FILING DATE: 13-FEB-1998

CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/01790  
FILING DATE: 14-FEB-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/461,195  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/023,852  
FILING DATE: 13-AUG-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,045  
FILING DATE: 28-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/862,432  
FILING DATE: 23-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/910,875  
FILING DATE: 13-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/055,561  
FILING DATE: 13-AUG-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 112:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 141 amino acids  
TYPE: amino acid  
STRANDEDNESS: single  
TOPOLOGY: not relevant  
MOLECULE TYPE: protein  
US-09-023-082A-112

Query Match 100.0%; Score 748; DB 3; Length 141;  
Best Local Similarity 100.0%; Pred. No. 4.4e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKNCPYSILEITSVIGWVAVKAINS 60  
Db 2 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGSTKKNCPYSILEITSVIGWVAVKAINS 61  
QY 61 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFNQHNQNGRQMYVALNGKGAPRR 120  
Db 62 NYILAMNKKGLYSGKEFNNDCKLKERIEENGYNITYASFNQHNQNGRQMYVALNGKGAPRR 121  
QY 121 GQKTRKNTSAHFLPMVHVS 140  
Db 122 GQKTRKNTSAHFLPMVHVS 141

RESULT 3  
US-09-218-444-17  
Sequence 17, Application US/09218444  
Patent No. 623888  
GENERAL INFORMATION:  
APPLICANT: GENTZ, REINER L.  
APPLICANT: Chopra, Arvind  
APPLICANT: Kaushal, Parveen  
APPLICANT: Spitznagel, Thomas  
APPLICANT: Unsworth, Edward  
APPLICANT: Khan, Fazal  
TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
FILE REFERENCE: 1488.1030001  
CURRENT APPLICATION NUMBER: US/09/218.444  
CURRENT FILING DATE: 1998-12-22  
EARLIER APPLICATION NUMBER: US 60/068,493  
EARLIER FILING DATE: 1997-12-22  
NUMBER OF SEQ ID NOS: 33

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/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 17
/ LENGTH: 141
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-218-444-17

Query Match      100.0%; Score 748; DB 3; Length 141;
Best Local Similarity 100.0%; Pred. No. 4.4e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 60
DB 2 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 61
QY 61 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 120
DB 62 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 121
QY 121 GQTRRKNTSAHFLPMVVS 140
DB 122 GQTRRKNTSAHFLPMVVS 141

RESULT 4
US-09-218-444-33
/ Sequence 33, Application US/09218444
/ Patent No. 5238888
/ GENERAL INFORMATION:
/ APPLICANT: Gentz, Reiner L.
/ APPLICANT: Chopra, Arvind
/ APPLICANT: Kaushal, Parveen
/ APPLICANT: Spitznagel, Thomas
/ APPLICANT: Unsworth, Edward
/ APPLICANT: Khan, Fazal
/ TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations
/ FILE REFERENCE: 1488.1030001
/ CURRENT APPLICATION NUMBER: US/09/218,444
/ EARLIER FILING DATE: 1998-12-22
/ EARLIER FILING DATE: 1997-12-22
/ NUMBER OF SEQ ID NOS: 33
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 33
/ LENGTH: 141
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-218-444-33

Query Match      100.0%; Score 748; DB 3; Length 141;
Best Local Similarity 100.0%; Pred. No. 4.4e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 60
DB 2 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 61
QY 61 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 120
DB 62 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 121
QY 121 GQTRRKNTSAHFLPMVVS 140
DB 122 GQTRRKNTSAHFLPMVVS 141

RESULT 5
US-09-248-998-96
/ Sequence 96, Application US/09248998
/ Patent No. 6599879
/ GENERAL INFORMATION:
/ APPLICANT: Jimenez, Pablo
/ APPLICANT: Ramey, Mark A.
/ APPLICANT: Mendrick, Donna
/ APPLICANT: Russell, Deborah
/ APPLICANT: Louie, Arthur
/ TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2
/ FILE REFERENCE: 1488.1060002
/ CURRENT APPLICATION NUMBER: US/09/248,998
/ EARLIER FILING DATE: 1999-02-12
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 13-FEB-1998
/ NUMBER OF SEQ ID NOS: 148
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 112
/ LENGTH: 141
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-248-998-112

Query Match      100.0%; Score 748; DB 4; Length 141;
Best Local Similarity 100.0%; Pred. No. 4.4e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 60
DB 2 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 61
QY 61 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 120
DB 62 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 121
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/ APPLICANT: Mendrick, Donna
/ APPLICANT: Russell, Deborah
/ APPLICANT: Louie, Arthur
/ TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2
/ FILE REFERENCE: 1488.1060002
/ CURRENT APPLICATION NUMBER: US/09/248,998
/ EARLIER FILING DATE: 1999-02-12
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 13-FEB-1998
/ NUMBER OF SEQ ID NOS: 148
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 96
/ LENGTH: 141
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-248-998-96

Query Match      100.0%; Score 748; DB 4; Length 141;
Best Local Similarity 100.0%; Pred. No. 4.4e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 60
DB 2 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 61
QY 61 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 120
DB 62 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 121
QY 121 GQTRRKNTSAHFLPMVVS 140
DB 122 GQTRRKNTSAHFLPMVVS 141

RESULT 6
US-09-248-998-112
/ Sequence 112, Application US/09248998
/ Patent No. 6599879
/ GENERAL INFORMATION:
/ APPLICANT: Jimenez, Pablo
/ APPLICANT: Ramey, Mark A.
/ APPLICANT: Mendrick, Donna
/ APPLICANT: Russell, Deborah
/ APPLICANT: Louie, Arthur
/ TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2
/ FILE REFERENCE: 1488.1060002
/ CURRENT APPLICATION NUMBER: US/09/248,998
/ EARLIER FILING DATE: 1999-02-12
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 30-DEC-1998
/ EARLIER FILING DATE: 13-FEB-1998
/ NUMBER OF SEQ ID NOS: 148
/ SOFTWARE: PatentIn Ver. 2.0
/ SEQ ID NO 112
/ LENGTH: 141
/ TYPE: PRT
/ ORGANISM: Homo sapiens
US-09-248-998-112

Query Match      100.0%; Score 748; DB 4; Length 141;
Best Local Similarity 100.0%; Pred. No. 4.4e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 60
DB 2 SYNHLQGDVVRWVKLFSTFKYFLKIEKNGKVGSGTKKENCPSYLSILEITSVGIVAVKAINS 61
QY 61 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 120
DB 62 NYILAMNKGKLYGSKFENNDCCKLERIEENGYNVTYASFNWQHNGRMQYVALNGKGAPRR 121
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QY 121 GQTRRKNTSAHFLPMVVS 140  
Db 122 GQTRRKNTSAHFLPMVVS 141

## RESULT 7

US-09-853-666-17  
; Sequence 17, Application US/09853666  
; Patent No. 6653284  
; GENERAL INFORMATION:  
; APPLICANT: Gentz, Reiner L.  
; APPLICANT: Chopra, Arvind  
; APPLICANT: Kaushal, Parveen  
; APPLICANT: Spitznagel, Thomas  
; APPLICANT: Unsworth, Edward  
; APPLICANT: Khan, Fazal  
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
; FILE REFERENCE: 1488.1030001  
; CURRENT APPLICATION NUMBER: US/09/853,666  
; PRIOR FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: 09/218,444  
; PRIOR FILING DATE: 1998-12-22  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 17  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-853-666-17

Query Match 100.0%; Score 748; DB 4; Length 141;  
Best Local Similarity 100.0%; Pred. No. 4.4e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVEIGVAVKAINS 60  
Db 2 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVEIGVAVKAINS 61  
QY 61 NYLMMNKKGLYSGKEFNNDCKLKERIEBNGYNTYASFNWQHGRCQMYVALNGKAPRR 120  
Db 62 NYLMMNKKGLYSGKEFNNDCKLKERIEBNGYNTYASFNWQHGRCQMYVALNGKAPRR 121

## RESULT 8

US-09-853-666-33  
; Sequence 33, Application US/09853666  
; Patent No. 6653284  
; GENERAL INFORMATION:  
; APPLICANT: Gentz, Reiner L.  
; APPLICANT: Chopra, Arvind  
; APPLICANT: Kaushal, Parveen  
; APPLICANT: Spitznagel, Thomas  
; APPLICANT: Unsworth, Edward  
; APPLICANT: Khan, Fazal  
; TITLE OF INVENTION: Keratinocyte Growth Factor-2 Formulations  
; FILE REFERENCE: 1488.1030001  
; CURRENT APPLICATION NUMBER: US/09/853,666  
; PRIOR FILING DATE: 2001-05-14  
; PRIOR APPLICATION NUMBER: 09/218,444  
; PRIOR FILING DATE: 1998-12-22  
; NUMBER OF SEQ ID NOS: 33  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 33  
; LENGTH: 141  
; TYPE: PRT  
; ORGANISM: Homo sapiens  
US-09-853-666-33

Query Match 100.0%; Score 748; DB 4; Length 141;  
Best Local Similarity 100.0%; Pred. No. 4.4e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVEIGVAVKAINS 60  
Db 2 SYNHLQGVWRKLFSTFKYFLKIEKNGKVSCTKENCPCYSILEITSVEIGVAVKAINS 61  
QY 61 NYLMMNKKGLYSGKEFNNDCKLKERIEBNGYNTYASFNWQHGRCQMYVALNGKAPRR 120  
Db 62 NYLMMNKKGLYSGKEFNNDCKLKERIEBNGYNTYASFNWQHGRCQMYVALNGKAPRR 121  
QY 121 GQTRRKNTSAHFLPMVVS 140  
Db 122 GQTRRKNTSAHFLPMVVS 141

## RESULT 9

US-09-023-082A-68  
; Sequence 68, Application US/09023082A  
; Patent No. 6077692  
; GENERAL INFORMATION:  
; APPLICANT: RUBEN, STEVEN M.  
; APPLICANT: JIMENEZ, PABLO  
; APPLICANT: DUAN, D. ROXANNE  
; APPLICANT: RAMPY, MARK A.  
; APPLICANT: MENDRICK, DONNA  
; APPLICANT: ZHANG, JUN  
; APPLICANT: NI, JIAN  
; APPLICANT: MOORE, PAUL A.  
; APPLICANT: COLEMAN, TIMOTHY A.  
; APPLICANT: GRUBER, JOACHIM R.  
; APPLICANT: DILLON, PATRICK J.  
; APPLICANT: GENTZ, REINER L.  
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
; NUMBER OF SEQUENCES: 148  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
; STREET: 1100 NEW YORK AVE, NW, SUITE 600  
; CITY: WASHINGTON  
; STATE: DC  
; COUNTRY: USA  
; ZIP: 20005-3934  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.30  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/09/023,082A  
; FILING DATE: 13-FEB-1998  
; CLASSIFICATION: 435  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: PCT/US95/01790  
; FILING DATE: 14-FEB-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/461,195  
; FILING DATE: 05-JUN-1995  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/023,852  
; FILING DATE: 13-AUG-1996  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/039,045  
; FILING DATE: 28-FEB-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/862,432  
; FILING DATE: 23-MAY-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 08/910,875  
; FILING DATE: 13-AUG-1997  
; PRIOR APPLICATION DATA:  
; APPLICATION NUMBER: US 60/055,561  
; FILING DATE: 13-AUG-1997



```

; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0360008/EKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 68:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 147 amino acids
; TYPE: amino acid
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-09-023-082A-68

Query Match 100.0%; Score 748; DB 3; Length 147;
Best Local Similarity 100.0%; Pred. No. 4.7e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGTKKENCPSYLEITSVIGVAVKAINS 60
Db 8 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGTKKENCPSYLEITSVIGVAVKAINS 67
QY 61 NYILAMNKGKLYGSKFNNDCCLKERIEENGNTYASFNWQHNGRQMYVALNGKAPRR 120
Db 68 NYILAMNKGKLYGSKFNNDCCLKERIEENGNTYASFNWQHNGRQMYVALNGKAPRR 127
QY 121 GQTRKNTSAHFLPMVHVS 140
Db 128 GQTRKNTSAHFLPMVHVS 147

RESULT 10
US-09-248-998-68
; Sequence 68, Application US/09248998
; Patent No. 6595879
; GENERAL INFORMATION:
; APPLICANT: Jimenez, Pablo
; APPLICANT: Rampy, Mark A.
; APPLICANT: Mendrick, Donna
; APPLICANT: Russell, Deborah
; APPLICANT: Louie, Arthur
; TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2
; FILE REFERENCE: 1488.1060002
; CURRENT APPLICATION NUMBER: US/09/248,998
; CURRENT FILING DATE: 1999-02-12
; EARLIER APPLICATION NUMBER: US 60/114,387
; EARLIER FILING DATE: 30-DEC-1998
; EARLIER APPLICATION NUMBER: US 60/074,565
; EARLIER FILING DATE: 13-FEB-1998
; NUMBER OF SEQ ID NOS: 148
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 68
; LENGTH: 147
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-248-998-68

Query Match 100.0%; Score 748; DB 4; Length 147;
Best Local Similarity 100.0%; Pred. No. 4.7e-79;
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

2Y 1 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGTKKENCPSYLEITSVIGVAVKAINS 60
2b 8 SYNHLQGDVVRWKLFSFTKYFLKIEKNGKVGTKKENCPSYLEITSVIGVAVKAINS 67
2Y 61 NYILAMNKGKLYGSKFNNDCCLKERIEENGNTYASFNWQHNGRQMYVALNGKAPRR 120
2b 68 NYILAMNKGKLYGSKFNNDCCLKERIEENGNTYASFNWQHNGRQMYVALNGKAPRR 127
2Y 121 GQTRKNTSAHFLPMVHVS 140
2b 128 GQTRKNTSAHFLPMVHVS 147

RESULT 11
US-09-023-082A-116
; Sequence 116, Application US/09023082A
; Patent No. 6077692
; GENERAL INFORMATION:
; APPLICANT: RUBEN, STEVEN M.
; APPLICANT: JIMENEZ, PABLO
; APPLICANT: DUAN, D. ROXANNE
; APPLICANT: RAMPY, MARK A.
; APPLICANT: MENDRICK, DONNA
; APPLICANT: ZHANG, JUN
; APPLICANT: NI, JIAN
; APPLICANT: MOORE, PAUL A.
; APPLICANT: COLEMAN, TIMOTHY A.
; APPLICANT: GRUBER, JOACHIM R.
; APPLICANT: DILLON, PATRICK J.
; APPLICANT: GENTZ, REINER L.
; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2
; NUMBER OF SEQUENCES: 148
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.
; STREET: 1100 NEW YORK AVE, NW, SUITE 600
; CITY: WASHINGTON
; STATE: DC
; COUNTRY: USA
; ZIP: 20005-3934
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patent In Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/023,082A
; FILING DATE: 13-FEB-1998
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/US95/01790
; FILING DATE: 14-FEB-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/461,195
; FILING DATE: 05-JUN-1995
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/023,852
; FILING DATE: 13-AUG-1996
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/039,045
; FILING DATE: 28-FEB-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/862,432
; FILING DATE: 23-MAY-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 08/910,875
; FILING DATE: 13-AUG-1997
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: US 60/055,561
; FILING DATE: 13-AUG-1997
; ATTORNEY/AGENT INFORMATION:
; NAME: STEFFE, ERIC K.
; REGISTRATION NUMBER: 36,688
; REFERENCE/DOCKET NUMBER: 1488.0360008/EKS
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 202-371-2600
; TELEFAX: 202-371-2540
; INFORMATION FOR SEQ ID NO: 116:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 171 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: not relevant
; MOLECULE TYPE: protein
US-09-023-082A-116
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Query Match 100.0%; Score 748; DB 3; Length 171;  
Best Local Similarity 100.0%; Pred. No. 5.8e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 60  
DB 32 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 91

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
DB 92 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 151

QY 121 GQTRRKNTSAHFLPMVHVS 140  
DB 152 GQTRRKNTSAHFLPMVHVS 171

RESULT 12  
US-09-248-998-116  
Sequence 116, Application US/09248998  
Patent No. 6599879  
GENERAL INFORMATION:  
APPLICANT: Jimenez, Pablo  
APPLICANT: Rampey, Mark A.  
APPLICANT: Mendrick, Donna  
APPLICANT: Russell, Deborah  
APPLICANT: Louie, Arthur  
TITLE OF INVENTION: Therapeutic Uses of Keratinocyte Growth Factor-2  
FILE REFERENCE: 1488.1060002  
CURRENT APPLICATION NUMBER: US/09/248,998  
CURRENT FILING DATE: 1999-02-12  
EARLIER APPLICATION NUMBER: US 60/114,387  
EARLIER FILING DATE: 30-DEC-1998  
EARLIER APPLICATION NUMBER: US 60/074,595  
EARLIER FILING DATE: 13-FEB-1998  
NUMBER OF SEQ ID NOS: 148  
SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 116  
LENGTH: 171  
TYPE: PRT  
ORGANISM: Homo sapiens  
US-09-248-998-116

Query Match 100.0%; Score 748; DB 4; Length 171;  
Best Local Similarity 100.0%; Pred. No. 5.8e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 60  
DB 32 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 91

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
DB 92 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 151

QY 121 GQTRRKNTSAHFLPMVHVS 140  
DB 152 GQTRRKNTSAHFLPMVHVS 171

RESULT 13  
US-09-023-082A-43  
Sequence 43, Application US/09023082A  
Patent No. 607692  
GENERAL INFORMATION:  
APPLICANT: RUBEN, STEVEN M.  
APPLICANT: JIMENEZ, PABLO  
APPLICANT: DUAN, D. ROXANNE  
APPLICANT: RAMPEY, MARK A.  
APPLICANT: MENDRICK, DONNA  
APPLICANT: ZHANG, JUN  
APPLICANT: NI, JIAN

APPLICANT: MOORE, PAUL A.  
APPLICANT: COLEMAN, TIMOTHY A.  
APPLICANT: GRUBER, JOACHIM R.  
APPLICANT: DILLON, PATRICK J.  
APPLICANT: GENTZ, REINER L.  
TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2  
NUMBER OF SEQUENCES: 148  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.  
STREET: 1100 NEW YORK AVE, NW, SUITE 600  
CITY: WASHINGTON  
STATE: DC  
COUNTRY: USA  
ZIP: 20005-3934  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/023,082A  
FILING DATE: 13-FEB-1998  
CLASSIFICATION: 435  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: PCT/US95/01790  
FILING DATE: 14-FEB-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/461,195  
FILING DATE: 05-JUN-1995  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/023,852  
FILING DATE: 13-AUG-1996  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/039,045  
FILING DATE: 28-FEB-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/862,432  
FILING DATE: 23-MAY-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 08/910,875  
FILING DATE: 13-AUG-1997  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/055,561  
FILING DATE: 13-AUG-1997  
ATTORNEY/AGENT INFORMATION:  
NAME: STEFFE, ERIC K.  
REGISTRATION NUMBER: 36,688  
REFERENCE/DOCKET NUMBER: 1488.0360008/EKS  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 202-371-2600  
TELEFAX: 202-371-2540  
INFORMATION FOR SEQ ID NO: 43:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 174 amino acids  
TYPE: amino acid  
TOPOLOGY: linear  
MOLECULE TYPE: protein  
US-09-023-082A-43

Query Match 100.0%; Score 748; DB 3; Length 174;  
Best Local Similarity 100.0%; Pred. No. 5.9e-79;  
Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 60  
DB 35 SYNHLQDVVRWKLFSFTKYFLKIEKNGKVSCTKENCPCYSILEITSVIGVAVKAINS 94

QY 61 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 120  
DB 95 NYILAMNKKGLYGSKEFNNDCKLKERIEENGNTYASFNWQHNGROMYVALNGKAPRR 154

QY 121 GQTRRKNTSAHFLPMVHVS 140  
|||||

Db 155 GQTRKNTSAHFLPMVHS 174

RESULT 14

US-09-023-082A-55

; Sequence 55, Application US/09023082A

; Patent No. 6077692

; GENERAL INFORMATION:

; APPLICANT: RUBEN, STEVEN M.

; APPLICANT: JIMENEZ, PABLO

; APPLICANT: DUAN, D. ROXANNE

; APPLICANT: RAMPEY, MARK A.

; APPLICANT: MENDRICK, DONNA

; APPLICANT: ZHANG, JUN

; APPLICANT: NI, JIAN

; APPLICANT: MOORE, PAUL A.

; APPLICANT: COLEMAN, TIMOTHY A.

; APPLICANT: GRUBER, JOACHIM R.

; APPLICANT: DILLON, PATRICK J.

; APPLICANT: GENTZ, REINER L.

; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2

; NUMBER OF SEQUENCES: 148

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

; STREET: 1100 NEW YORK AVE, NW, SUITE 600

; CITY: WASHINGTON

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/023,082A

; FILING DATE: 13-FEB-1998

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/01790

; FILING DATE: 23-MAY-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/023,852

; FILING DATE: 13-AUG-1996

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/039,045

; FILING DATE: 28-FEB-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/461,195

; FILING DATE: 05-JUN-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/023,852

; FILING DATE: 13-AUG-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/510,875

; FILING DATE: 13-AUG-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/055,561

; FILING DATE: 13-AUG-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: STEFFEE, ERIC K.

; REGISTRATION NUMBER: 36,688

; REFERENCE/DOCKET NUMBER: 1488.0360008/EKS

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600

; TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 55:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 174 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-09-023-082A-55

Query Match 100.0%; Score 748; DB 3; Length 174;

Best Local Similarity 100.0%; Pred. No. 5.9e-79;

Matches 140; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 SYNHLQGDVVRWRLFSFTKYFLKIBKNGKVSCTKKENCPSYLEITSVEIGVAVKAINS 60

Db 35 SYNHLQGDVVRWRLFSFTKYFLKIBKNGKVSCTKKENCPSYLEITSVEIGVAVKAINS 94

Qy 61 NYLANKKGLYSGKEFNNDCKLKERIEENGYNTPASFNWCHNGSOMYVALNGKAPRR 120

Db 95 NYLANKKGLYSGKEFNNDCKLKERIEENGYNTPASFNWCHNGSOMYVALNGKAPRR 154

Qy 121 GQTRKNTSAHFLPMVHS 140

Db 155 GQTRKNTSAHFLPMVHS 174

RESULT 15

US-09-023-082A-66

; Sequence 66, Application US/09023082A

; Patent No. 6077692

; GENERAL INFORMATION:

; APPLICANT: RUBEN, STEVEN M.

; APPLICANT: JIMENEZ, PABLO

; APPLICANT: DUAN, D. ROXANNE

; APPLICANT: RAMPEY, MARK A.

; APPLICANT: MENDRICK, DONNA

; APPLICANT: ZHANG, JUN

; APPLICANT: NI, JIAN

; APPLICANT: MOORE, PAUL A.

; APPLICANT: COLEMAN, TIMOTHY A.

; APPLICANT: GRUBER, JOACHIM R.

; APPLICANT: DILLON, PATRICK J.

; APPLICANT: GENTZ, REINER L.

; TITLE OF INVENTION: KERATINOCYTE GROWTH FACTOR-2

; NUMBER OF SEQUENCES: 148

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: STERNE, KESSLER, GOLDSTEIN & FOX, P.L.L.C.

; STREET: 1100 NEW YORK AVE, NW, SUITE 600

; CITY: WASHINGTON

; STATE: DC

; COUNTRY: USA

; ZIP: 20005-3934

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: Patent In Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/09/023,082A

; FILING DATE: 13-FEB-1998

; CLASSIFICATION: 435

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: PCT/US95/01790

; FILING DATE: 14-FEB-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/461,195

; FILING DATE: 05-JUN-1995

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/023,852

; FILING DATE: 13-AUG-1996

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/039,045

; FILING DATE: 28-FEB-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 08/461,195

; FILING DATE: 23-MAY-1997

; PRIOR APPLICATION DATA:

; APPLICATION NUMBER: US 60/055,561

; FILING DATE: 13-AUG-1997

; ATTORNEY/AGENT INFORMATION:

; NAME: STEFFEE, ERIC K.

; REGISTRATION NUMBER: 36,688

; REFERENCE/DOCKET NUMBER: 1488.0360008/EKS

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 202-371-2600

; TELEFAX: 202-371-2540

; INFORMATION FOR SEQ ID NO: 55:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 174 amino acids

; TYPE: amino acid

; TOPOLOGY: linear

; MOLECULE TYPE: protein

US-09-023-082A-66

FILING DATE: 13-AUG-1997
ATTORNEY/AGENT INFORMATION:
NAME: STEFFE, ERIC K.
REGISTRATION NUMBER: 36,688
REFERENCE/DOCKET NUMBER: 1488.0360008/EKS
TELECOMMUNICATION INFORMATION:
TELEPHONE: 202-371-2600
TELEFAX: 202-371-2540
INFORMATION FOR SEQ ID NO: 66:
SEQUENCE CHARACTERISTICS:
LENGTH: 174 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: Protein
US-09-023-082A-66

Query Match	100.0%	Score 748;	DB 3;	Length 174;
Best Local Similarity	100.0%	Pred. No. 5.9e-79;		
Matches 140;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0;

  

QY	1	SYNHLQGDVVRWKLFSTFYFLKIEKNGKVS	GT	KENC	PYSIL	IT	SV	EL	GV	VAVK	AINS	60
Db	35	SYNHLQGDVVRWKLFSTFYFLKIEKNGKVS	GT	KENC	PYSIL	IT	SV	EL	GV	VAVK	AINS	94
QY	61	NYLLAMNKKGLYGSKEFNNDCKLKERIE	ENG	YNT	YAS	FN	WQ	HN	GR	OM	YV	AL
Db	95	NYLLAMNKKGLYGSKEFNNDCKLKERIE	ENG	YNT	YAS	FN	WQ	HN	GR	OM	YV	AL
QY	121	GQTRKNTSAHFLPMV	VHS	140								
Db	155	GQTRKNTSAHFLPMV	VHS	174								

Search completed: March 26, 2004, 04:51:05
Job time : 42 secs